

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. TYPE OF WORK **DRILL** ☒ **DEEPEN** ☐  
 1b. TYPE OF WELL  
 OIL ☐ GAS ☐ SINGLE ☐ MULTIPLE ☐  
 WELL ☒ WELL ☐ OTHER ☐ ZONE ☒ ZONE ☐

2. NAME OF OPERATOR  
**Inland Production Company**

3. ADDRESS OF OPERATOR  
**410 - 17th Street, Suite 700, Denver, CO 80202 Phone: (303) 893-0102**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. \*)

At Surface **SW/SW 822' FWL 565' FSL**

At proposed Prod. Zone

**4438884 N  
585378 E**

5. LEASE DESIGNATION AND SERIAL NO.

**UTU-77233**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**N/A**

7. UNIT AGREEMENT NAME

**Canvasback Unit**

8. FARM OR LEASE NAME WELL NO

**Canvasback**

9. API WELL NO.

**13A-22-8-17**

10. FIELD AND POOL OR WILDCAT

**Monument Butte**

11. SEC., T., R., M., OR BLK.

AND SURVEY OR AREA

**SW/SW**

**Sec. 22, T8S, R17E**

12. County

**Duchesne**

13. STATE

**UT**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

**Approximately 11.17 miles southeast of Myton, Utah**

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY  
OR LEASE LINE, FT. (Also 1

**Approx. 565' f/lse line & 565' f/unit line**

16. NO. OF ACRES IN LEASE

**1202.78**

17. NO. OF ACRES ASSIGNED TO THIS WELL

**40**

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL,  
DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.

**Approx. 992'**

19. PROPOSED DEPTH

**6500'**

20. ROTARY OR CABLE TOOLS

**Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

**5161' GR**

22. APPROX. DATE WORK WILL START\*

**3rd Quarter 2001**

**23. PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Refer to Monument Butte Field SOP's Drilling Program/Casing Design				

**Inland Production Company proposes to drill this well in accordance with the attached exhibits.**

**The Conditions of Approval are also attached.**

**Federal Approval of this  
Action is Necessary**

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone.  
If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

*B. Medlar*

TITLE

**Operations Manager**

DATE

**03/21/2001**

(This space for Federal or State office use)

PERMIT NO.

**43-013-32238**

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

*Bradley G. Hill*

TITLE

**BRADLEY G. HILL  
RECLAMATION SPECIALIST III**

**04-02-2001**

**RECEIVED**

**\*See Instructions On Reverse Side**

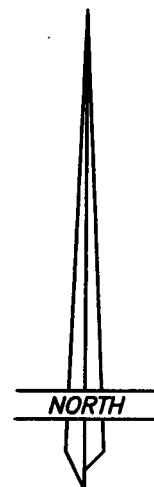
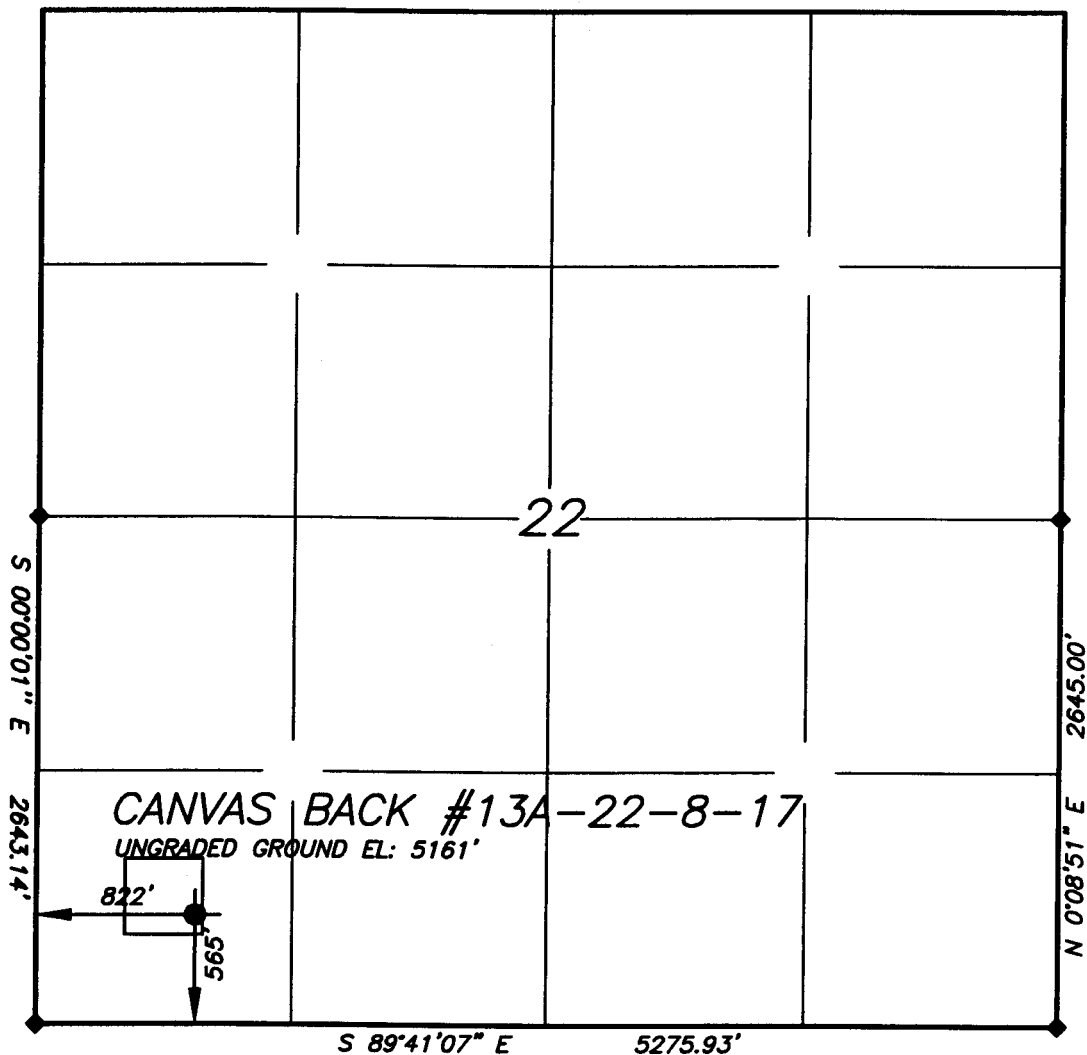
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**MAR 26 2001**

**DIVISION OF  
OIL, GAS AND MINING**

**INLAND PRODUCTION COMPANY**  
**WELL LOCATION PLAT**  
**CANVAS BACK #13A-22-8-17**

LOCATED IN THE SW1/4 OF THE SW1/4 OF  
 SECTION 22, T8S, R17E, S.L.B.&M.



SCALE: 1" = 1000'



**LEGEND AND NOTES**

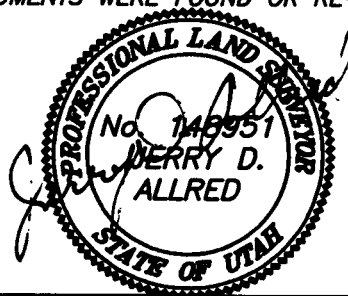
- ◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY.

THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS, AS WAS THE U.S.G.S. MAP.

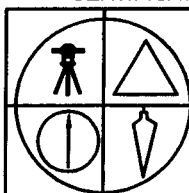
THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT. THE BEARINGS ARE BASED ON WGS84 DATUM.

**SURVEYOR'S CERTIFICATE**

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY PERFORMED BY ME, DURING WHICH THE SHOWN MONUMENTS WERE FOUND OR RE-ESTABLISHED.



JERRY D. ALLRED, PROFESSIONAL LAND SURVEYOR,  
 CERTIFICATE NO. 148951, STATE OF UTAH



**JERRY D. ALLRED & ASSOCIATES**  
 SURVEYING CONSULTANTS

121 NORTH CENTER ST.--P.O. BOX 975  
 DUCHESNE, UTAH 84021  
 (435) 738-5357

12 MAR 2001

84-121-079

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:  
3160  
(UT-922)

March 30, 2001

### Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2001 Plan of Development Canvasback Unit,  
Duchesne County, Utah.

Pursuant to email between Lisha Cordova, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management. The following wells are planned for calendar year 2001 within the Canvasback Unit, Duchesne County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ Grrv)		
43-013-32238	13A-22-8-17	Sec. 22, T8S, R17E 0565 FSL 0822 FWL
43-013-32239	14-22-8-17	Sec. 22, T8S, R17E 0664 FSL 2067 FWL
43-013-32240	15-22-8-17	Sec. 22, T8S, R17E 0910 FSL 2056 FEL
43-013-32241	16-22-8-17	Sec. 22, T8S, R17E 0624 FSL 0465 FEL

This office has no has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Canvasback Unit  
Division of Oil Gas and Mining  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:3-30-1

**INLAND PRODUCTION COMPANY  
CANVASBACK #13A-22-8-17  
SW/SW SECTION 22, T8S, R17E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**DRILLING PROGRAM**

**1. GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' – 1640'
Green River	1640'
Wasatch	6500'

**3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 1640' – 6500' - Oil

**4. PROPOSED CASING PROGRAM**

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

**5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

Please refer to the Monument Butte Field SOP. See Exhibit "F".

**6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

Please refer to the Monument Butte Field SOP.

**7. AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Please refer to the Monument Butte Field SOP.

**8. TESTING, LOGGING AND CORING PROGRAMS:**

Please refer to the Monument Butte Field SOP.

**9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

The anticipated maximum bottom hole pressure is 2000 psi. It is not anticipated that abnormal temperatures will be encountered.

**10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

Please refer to the Monument Butte Field SOP.



**INLAND PRODUCTION COMPANY  
CANVASBACK #13A-22-8-17  
SW/SW SECTION 22, T8S, R17E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Inland Production Company well location site Canvasback # 13A-22-8-17 located in the SW 1/4 SW 1/4 Section 22, T8S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.5 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southerly along Hwy 53 - 6.8 miles  $\pm$  to the junction of an existing paved road to the east. Proceed easterly 2.5 miles  $\pm$  to the beginning of the proposed access road to the Greater Boundary Unit 9-21 and 16-21. Proceed southerly to the Greater Boundary Unit 16-21 location and the beginning of the proposed access road to the Canvasback 13A-22-8-17.

**2. PLANNED ACCESS ROAD**

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).  
See Topographic Map "B" for the location of the proposed access road.

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "D".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

**5. LOCATION AND TYPE OF WATER SUPPLY**

Please refer to the Monument Butte Field SOP. See Exhibit "C".

**6. SOURCE OF CONSTRUCTION MATERIALS**

Please refer to the Monument Butte Field SOP.

**7. METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

**8. ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, pipe racks, trailer parking, spoil dirt stockpile(s), and Surface material stockpile(s).

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management

12. **OTHER ADDITIONAL INFORMATION**

The Paleontological Resource Survey for this area will be forwarded to your office as soon as it is completed.

13. **LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION**

**Representative**

Name: Brad Mecham  
Address: Route #3 Box 3630  
Myton, Utah 84052  
Telephone: (435) 646-3721

**Certification**

Please be advised that INLAND PRODUCTION COMPANY is considered to be the operator of well #13A-22-8-17 SW/SW Section 22, Township 8S, Range 17E: Lease UTU-77233 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

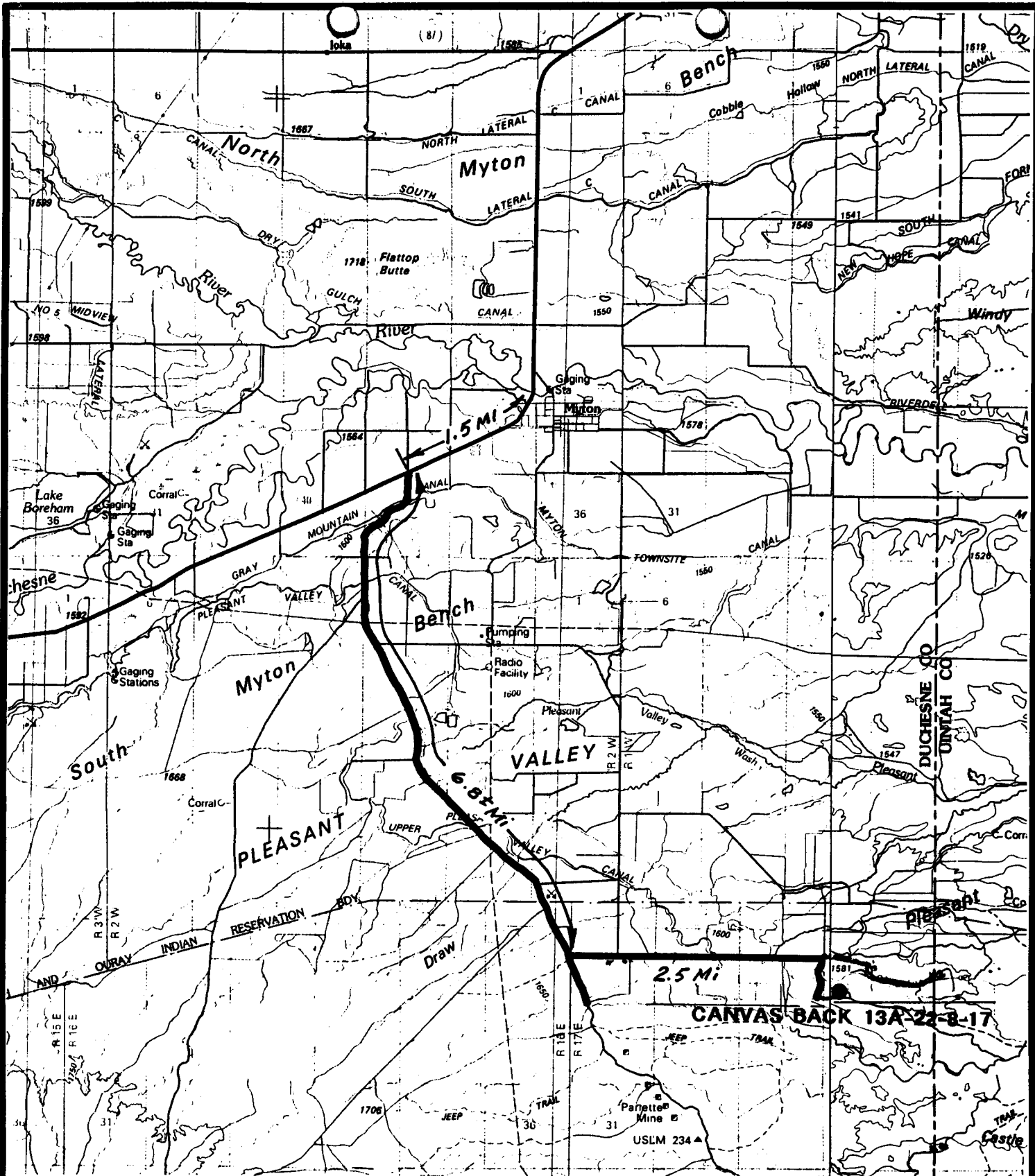
I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Inland Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

3/22/01

Date



Brad Mecham  
Operations Manager



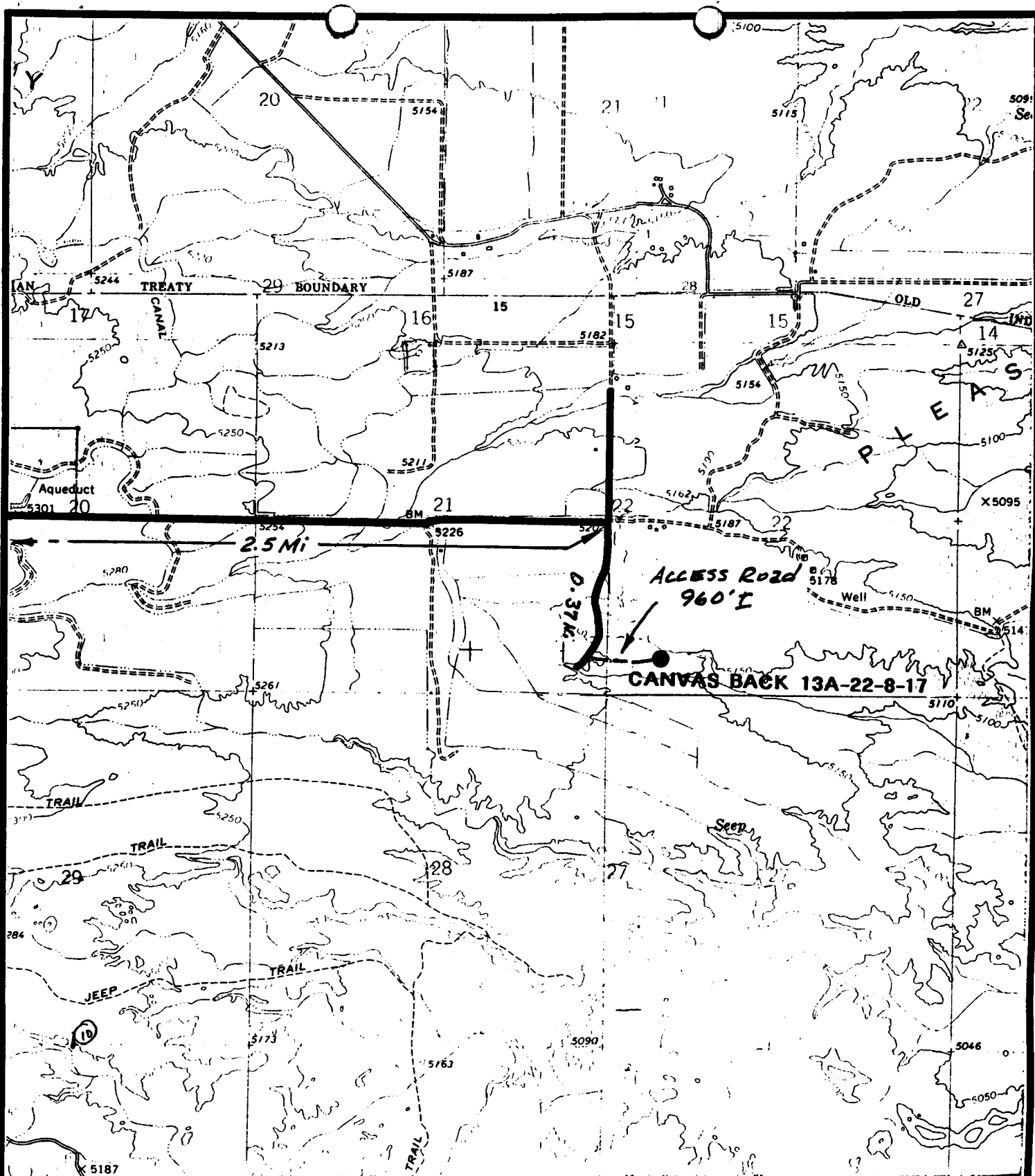
# TOPOGRAPHIC MAP "A"

JERRY D. ALLRED AND ASSOCIATES  
121 NORTH CENTER STREET  
P.O. BOX 975  
DUCHESTER, UTAH 84021  
(435) 738-5352

INLAND PRODUCTION CO.  
LOCATION X-SECTION PLAT  
CANVAS BACK #13A-22-8-17  
SECTION 22, T8S, R17E, S.L.B.&M.

12 MAR 2001

84-121-079



# TOPOGRAPHIC MAP "B"

JERRY D. ALLRED AND ASSOCIATES  
121 NORTH CENTER STREET  
P.O. BOX 975  
DUCHESNE, UTAH 84021  
(435) 738-5352

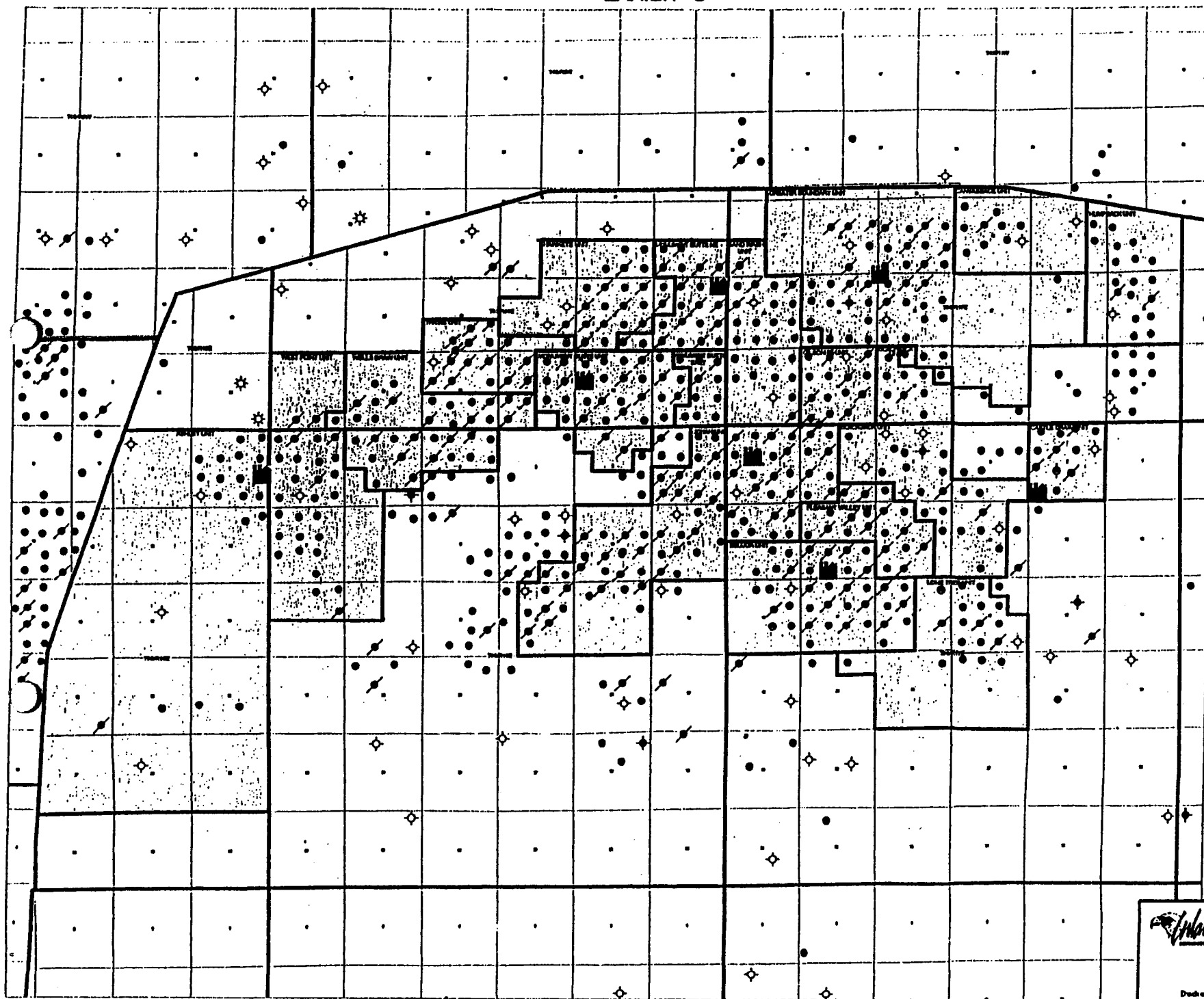
SCALE: 1" = 2000'

INLAND PRODUCTION CO.  
LOCATION X-SECTION PLAT  
CANVAS BACK #13A-22-8-17  
SECTION 22, T8S, R17E, S.L.B.&M.

12 MAR 2001

84-121-079

# EXHIBIT "C"



## Well Categories

- ◆ INJ
- ◆ WTR
- ◆ SWD
- OIL
- ☆ GAS
- ◇ DRY
- ◆ SHUTIN
- SUSPENDED
- ◆ ABND
- Injection Stations
- Unit Sections



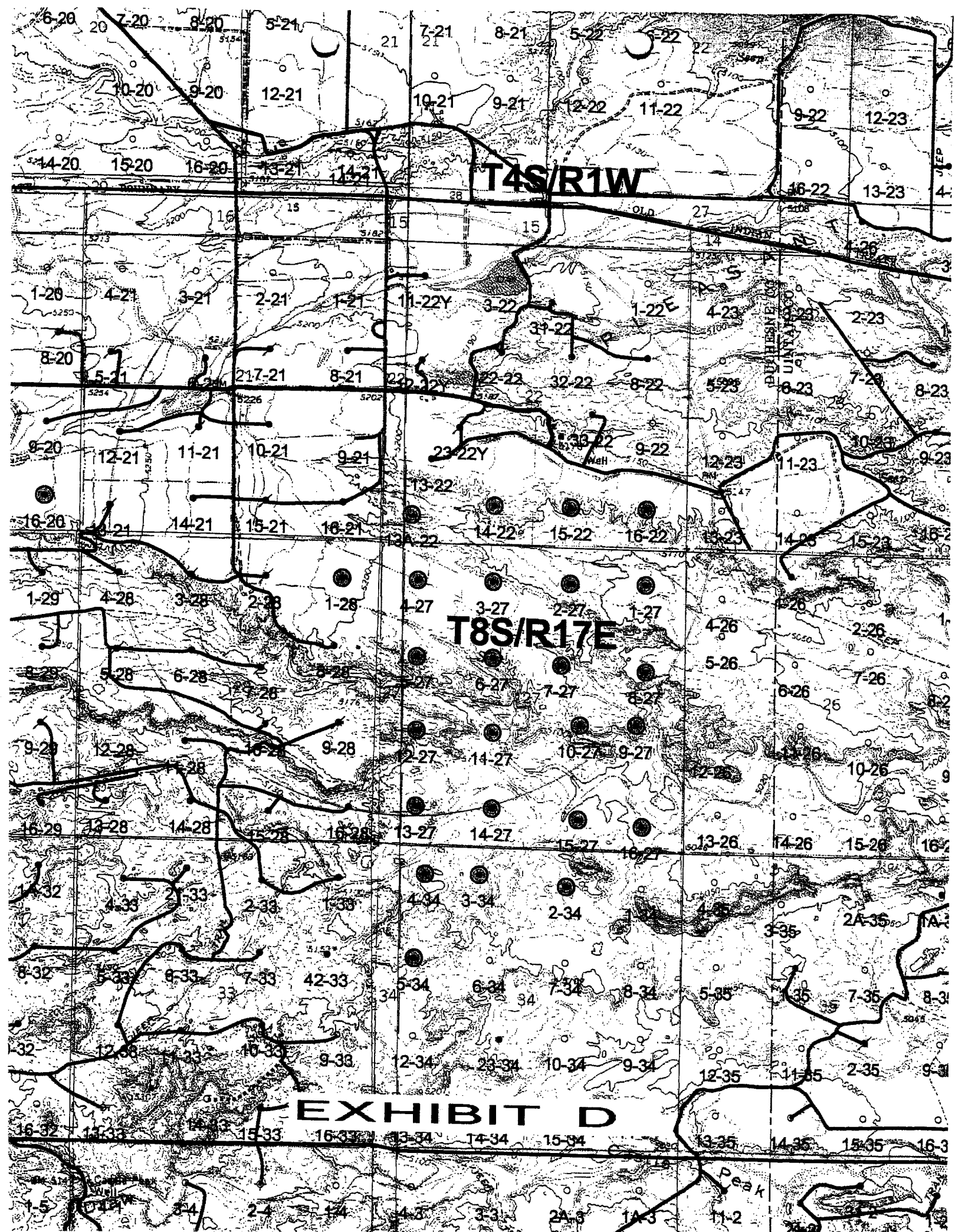
40 11" Steel 5 x 100  
Bore, Colorado 80201  
Phone (303) 974-0100

## UINTA BASIN

Duckwater & Uintah Counties, Utah

Date 11-11-99

M&P

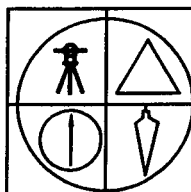


LOCATED IN THE SW1/4 OF THE SW1/4 OF  
SECTION 22, T8S, R17E, S.L.B.&M.



145' ON 1 CENTERLINE = 5157.0'  
170' ON 3 CENTERLINE = 5153.2'  
115' ON 5 CENTERLINE = 5172.7'  
190' ON 7 CENTERLINE = 5163.6'

**84-121-079**



121 NORTH CENTER ST.--P.O. BOX 975  
DUCHESNE, UTAH 84021  
(435) 738-5357

INLAND PRODUCTION CO.  
 LOCATION X-SECTION PLAT  
 CANVAS BACK #13A-22-8-17  
 SECTION 22, T8S, R17E, S.L.B.&M.

1" = 20'  
 X-SECTION  
 SCALE  
 1" = 50'

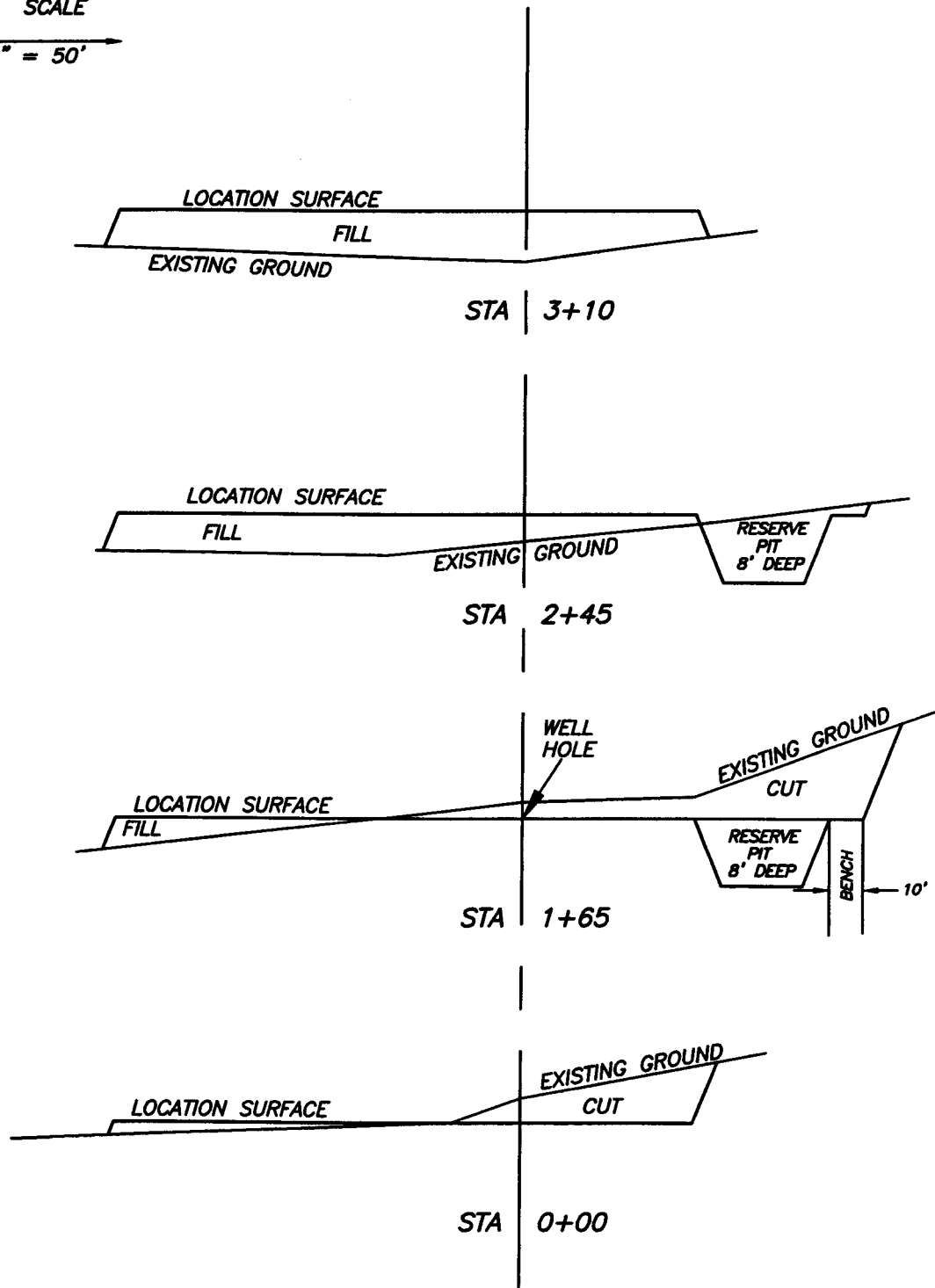


EXHIBIT E-1

APPROXIMATE QUANTITIES

CUT: 1927 CU. YDS. (LOCATION)  
 CUT: 700 CU. YDS. (PIT)  
 CUT: 1263 CU. YDS. (BORROW AREA)  
 FILL: 3890 CU. YDS.

JERRY D. ALLRED AND ASSOCIATES  
 121 NORTH CENTER STREET  
 P.O. BOX 975  
 DUCHESNE, UTAH 84021  
 (435) 738-5352

12 MAR 2001

84-121-079





March 23, 2001

State of Utah  
Division of Oil, Gas & Mining  
Attn: Brad Gill  
1594 West North Temple - Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Application for Permit to Drill Well No: 13A-22-8-17, 14-22-8-17,  
15-22-8-17, and 16-22-8-17.

Dear Brad:

Enclosed find APD's on the above referenced wells. If you have any questions, feel free to give either Brad or myself a call.

Sincerely,

  
Mandie Crozier  
Permit Clerk

mc  
enclosures

cc: Jon Holst  
Denver office well file  
Pleasant Valley well file

**RECEIVED**

**MAR 26 2001**

**DIVISION OF  
OIL, GAS AND MINING**

RAM TYPE B.O.P.

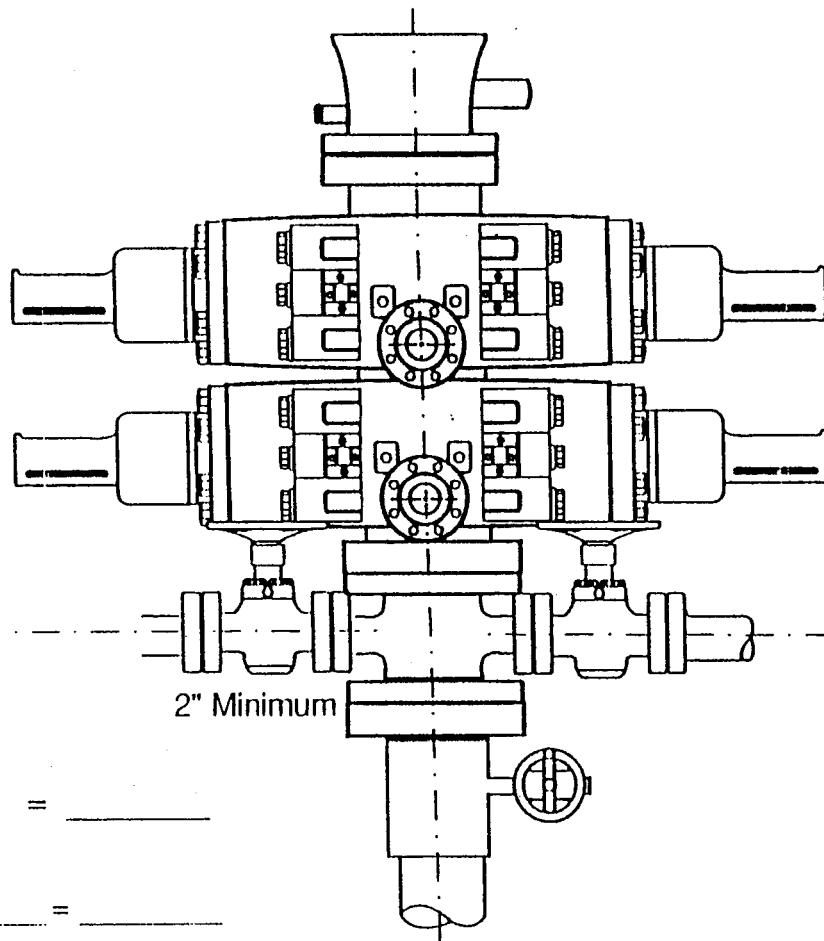
Make:

Size:

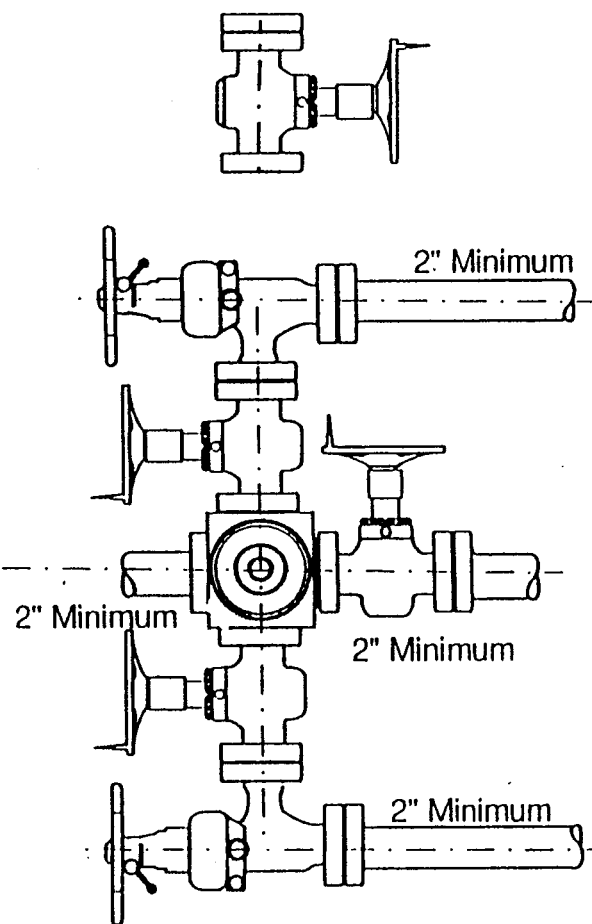
Model:

## 2-M SYSTEM

Page 4



2" Minimum



2" Minimum

2" Minimum

2" Minimum

2" Minimum

☐ GAL TO CLOSE

Annular BOP = \_\_\_\_\_

Ramtype BOP

\_\_\_\_\_ Rams x \_\_\_\_\_ = \_\_\_\_\_

= \_\_\_\_\_ Gal.

\_\_\_\_\_ x 2 = \_\_\_\_\_ Total Gal.

• Rounding off to the next higher  
increment of 10 gal. would require

\_\_\_\_\_ Gal. (total fluid & nitro volume)

**EXHIBIT F**

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 03/26/2001

API NO. ASSIGNED: 43-013-32238

WELL NAME: CANVASBACK 13A-22-8-17  
OPERATOR: INLAND PRODUCTION ( N5160 )  
CONTACT: BRAD MECHAM

PHONE NUMBER: 303-893-0102

**PROPOSED LOCATION:**

SWSW 22 080S 170E  
SURFACE: 0565 FSL 0822 FWL  
BOTTOM: 0565 FSL 0822 FWL  
DUCHESNE  
MONUMENT BUTTE ( 105 )

LEASE TYPE: 1-Federal  
LEASE NUMBER: UTU-77233  
SURFACE OWNER: 1-Federal

PROPOSED FORMATION: GRRV

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

**RECEIVED AND/OR REVIEWED:**

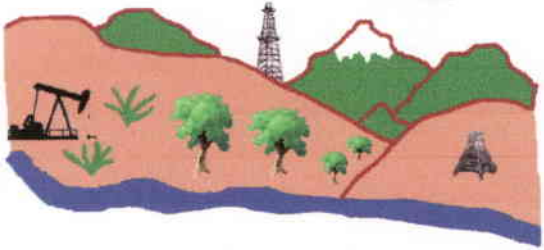
☒ Flat  
☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. 4488944 )  
☒ Potash (Y/N)  
☒ Oil Shale (Y/N) \*190-5 (B) or 190-3  
☒ Water Permit  
(No. MUNICIPAL )  
☒ RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )  
☒ N/A Fee Surf Agreement (Y/N)

**LOCATION AND SITING:**

☐ R649-2-3. Unit CANVASBACK (GR)  
☐ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells  
☐ R649-3-3. Exception  
☒ Drilling Unit  
Board Cause No: 225-3 X Unit & Enh. Rec.  
Eff Date: 9-23-98  
Siting: Statewide Rules Suspended  
☐ R649-3-11. Directional Drill

COMMENTS: mon. Butte Field Sol, separate file.

STIPULATIONS: ① FEDERAL APPROVAL



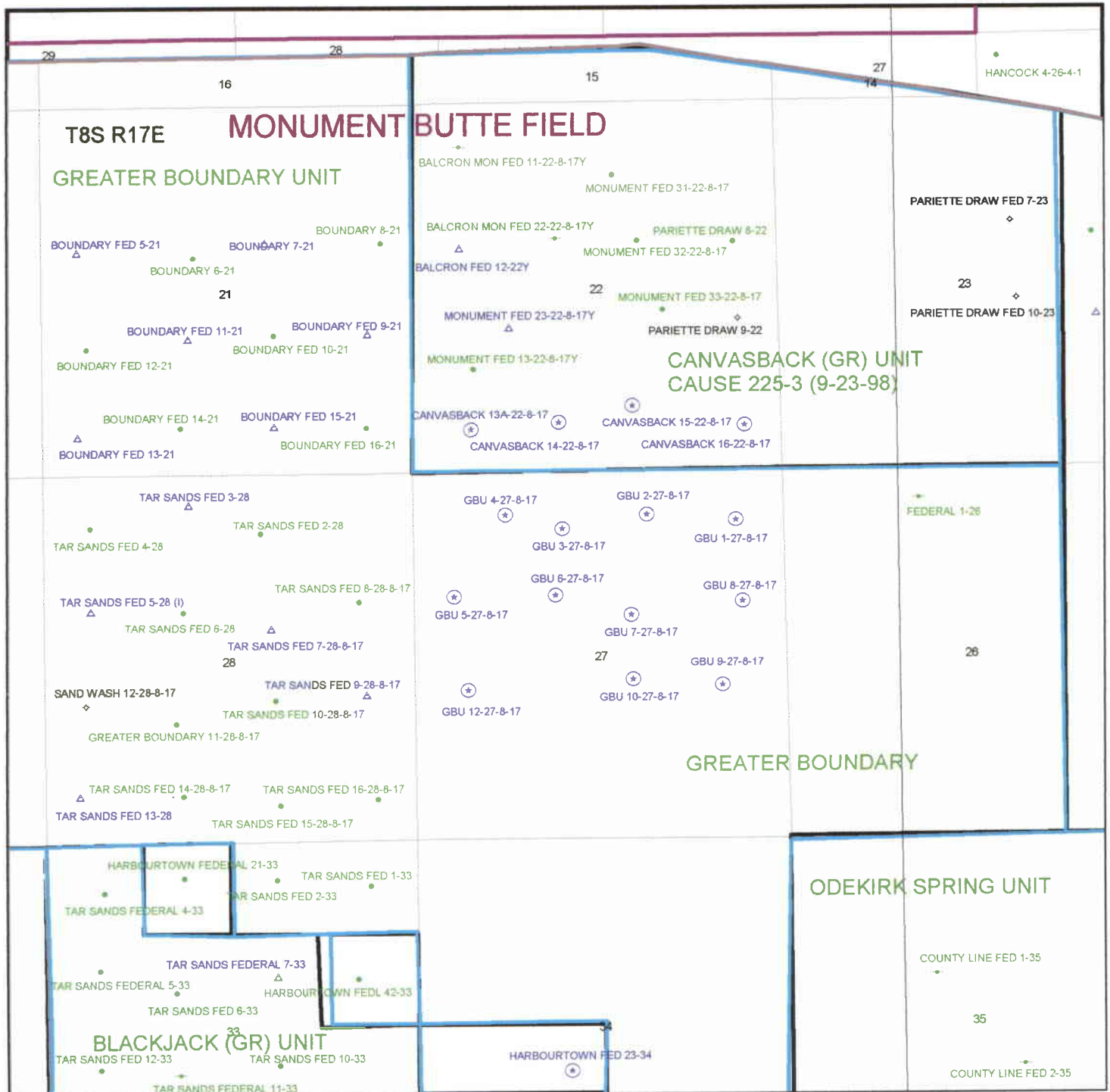
Utah Oil Gas and Mining

OPERATOR: INLAND PROD CO (N5160)

SEC. 22, T8S, R17E

FIELD: MONUMENT BUTTE (105)

COUNTY: DUCHESNE UNIT: CANVASBACK (GR)  
CAUSE: 225-3





State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Kathleen Clarke  
Executive Director

Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340  
801-359-3940 (Fax)  
801-538-7223 (TDD)

April 2, 2001

Inland Production Company  
410 - 17th St, Suite 700  
Denver, CO 80202

Re: Canvasback 13A-22-8-17 Well, 565' FSL, 822' FWL, SW SW, Sec. 22, T. 8 South,  
R. 17 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-32238.

Sincerely,

A handwritten signature in black ink, appearing to read 'John R. Baza'.

John R. Baza  
Associate Director

er

Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal District Office

**Operator:** Inland Production Company  
**Well Name & Number** Canvasback 13A-22-8-17  
**API Number:** 43-013-32238  
**Lease:** UTU-77233

**Location:** SW SW      **Sec.** 22      **T.** 8 South      **R.** 17 East

### **Conditions of Approval**

**1. General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**2. Notification Requirements**

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

**3. Reporting Requirements**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

**4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.**

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. TYPE OF WORK <b>DRILL</b> <input type="checkbox"/> <b>DEEPEN</b> <input checked="" type="checkbox"/>				5. LEASE DESIGNATION AND SERIAL NO. <b>UTU-77233</b>	
1b. TYPE OF WELL OIL <input type="checkbox"/> GAS <input type="checkbox"/> SINGLE <input type="checkbox"/> MULTIPLE <input type="checkbox"/> WELL <input checked="" type="checkbox"/> WELL <input type="checkbox"/> OTHER <input type="checkbox"/> ZONE <input checked="" type="checkbox"/> ZONE <input type="checkbox"/>				6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>N/A</b>	
2. NAME OF OPERATOR <b>Inland Production Company</b>				7. UNIT AGREEMENT NAME <b>Canvasback Unit</b>	
3. ADDRESS OF OPERATOR <b>410 - 17th Street, Suite 700, Denver, CO 80202 Phone: (303) 893-0102</b>				8. FARM OR LEASE NAME WELL NO. <b>Canvasback</b>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. *) At Surface <b>SW/SW 822' FWL 565' FSL</b> At proposed Prod. Zone				9. API WELL NO. <b>13A-22-8-17</b>	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>SW/SW Sec. 22, T8S, R17E</b>				10. FIELD AND POOL OR WILDCAT <b>Monument Butte</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <b>Approximately 11.17 miles southeast of Myton, Utah</b>				12. County <b>Duchesne</b>	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to)		16. NO. OF ACRES IN LEASE		17. NO. OF ACRES ASSIGNED TO THIS WELL	
<b>Approx. 565' f/lse line &amp; 565' f/unit line</b>		<b>1202.78</b>		<b>40</b>	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT. <b>Approx. 992'</b>		19. PROPOSED DEPTH <b>6500'</b>		20. ROTARY OR CABLE TOOLS <b>Rotary</b>	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>5161' GR</b>				22. APPROX. DATE WORK WILL START* <b>3rd Quarter 2001</b>	
23. PROPOSED CASING AND CEMENTING PROGRAM					
SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT	
<b>Refer to Monument Butte Field SOP's Drilling Program/Casing Design</b>					

**Inland Production Company proposes to drill this well in accordance with the attached exhibits.**

**The Conditions of Approval are also attached.**

RECEIVED  
MAR 26 2001

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone.  
If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED *B. Medlar* TITLE **Operations Manager** DATE **03/21/2001**  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY *John L. [Signature]* TITLE **Assistant Field Manager Mineral Resources** DATE **3/26/02**

**NOTICE OF APPROVAL**

**CONDITIONS OF APPROVAL ATTACHED**

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*DOOMA*  
*OIP50711H*

DIVISION OF  
OIL, GAS AND MINING

**CONDITIONS OF APPROVAL**  
**APPLICATION FOR PERMIT TO DRILL**

Company/Operator: Inland Production Company

Well Name & Number: Canvasback 13A-22-8-17

API Number: 43-013-32238

Lease Number: U -77223

Location: SWSW Sec. 22 T. 08S R. 17E

Agreement: Canvasback Unit

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

**CONDITIONS OF APPROVAL FOR NOTICE TO DRILL**

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease that would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

**A. DRILLING PROGRAM**

**1. Casing Program and Auxiliary Equipment**

As a minimum, the usable water resources and other resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the Green River Formation, identified at " 1,960 ft.

In the event after-hours approvals are necessary, you must contact one of the following individuals:

Ed Forsman                      (435) 828-7874 (CELL)  
Petroleum Engineer

Kirk Fleetwood                (435) 828-6858 (CELL)  
Petroleum Engineer

FAX Machine                    (435) 781-4410



SURFACE USE PROGRAM  
Conditions of Approval (COA)  
Inland Production Company - Well No. 13A-22-8-17 & 14-22-8-17

Plans For Reclamation Of Location:

1. All seeding for reclamation operations at these locations shall use the following seed mixture:

galleta grass	Hilaria jamesii	3 lbs/acre
shadscale	Atriplex confertifolia	3 lbs/acre
Gardners salt bush	Atriplex gardneri	3 lbs/acre
mat salt bush	Atriplex corrugata	3 lbs/acre

2. If the seed mixture is to be aerially broadcasted, the pounds per acre shall be doubled. All seed poundages are in Pure Live Seed.
3. Immediately after construction the stockpiled top soil will be seeded and the seed worked into the soil by "walking" the pile with caterpillar tracks.

**INLAND PRODUCTION COMPANY  
CANVASBACK #13A-22-8-17  
SW/SW SECTION 22, T8S, R17E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Inland Production Company well location site Canvasback # 13A-22-8-17 located in the SW 1/4 SW 1/4 Section 22, T8S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.5 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southerly along Hwy 53 - 6.8 miles  $\pm$  to the junction of an existing paved road to the east. Proceed easterly 2.5 miles  $\pm$  to the beginning of the proposed access road to the Greater Boundary Unit 9-21 and 16-21. Proceed southerly to the Greater Boundary Unit 16-21 location and the beginning of the proposed access road to the Canvasback 13A-22-8-17.

**2. PLANNED ACCESS ROAD**

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).  
See Topographic Map "B" for the location of the proposed access road.

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "D".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

**5. LOCATION AND TYPE OF WATER SUPPLY**

Please refer to the Monument Butte Field SOP. See Exhibit "C".

**6. SOURCE OF CONSTRUCTION MATERIALS**

Please refer to the Monument Butte Field SOP.

**7. METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

**8. ANCILLARY FACILITIES**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**822 FWL 565 FSL SW/SW Section 22, T8S R17E**

5. Lease Designation and Serial No.

**UTU-77233**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**CANVASBACK**

8. Well Name and No.

**CANVASBACK 13A-22-8-17**

9. API Well No.

**43-013-32238**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTA**

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **Permit Extension**

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Inland Production Company requests to extend the permit to drill this well for one year.

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Date:** 4-03-02  
**By:** [Signature]

**COPY SENT TO OPERATOR**  
**Date:** 4-4-02  
**Initials:** CHD

14. I hereby certify that the foregoing is true and correct.

Signed

Mandie Crozier  
**Mandie Crozier**

Title

**Permit Clerk**

Date

**4/1/02**

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

CC: Utah DOGM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**RECEIVED**  
**APR 3 2002**  
**DIVISION OF**  
**OIL, GAS AND MINING**

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: INLAND PRODUCTION COMPANY

Well Name: CANVASBACK 13A-22-8-17

Api No. 43-013-32238 LEASE TYPE: FEDERAL

Section 22 Township 08S Range 17E County DUCHESNE

Drilling Contractor STUBBS DRILLING RIG # 111

SPUDDED:

Date 04/16/2002

Time 8:30 AM

How DRY

Drilling will commence \_\_\_\_\_

Reported by PAT WISENER

Telephone # 1-435-823-7468

Date 04/17/2002 Signed: CHD

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM - FORM 6

OPERATOR: INLAND PRODUCTION COMPANY  
ADDRESS: RT. 3 BOX 3630  
MYTON, UT 84052

OPERATOR ACCT. NO. N5160

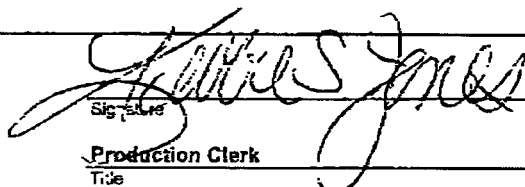
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12299	43-013-32238	Canvasback #13A-22-8-17	SW/SW	22	8S	17E	Duchesne	April 16, 2002	4-29-02 04/26/02
WELL 1 COMMENTS											
WELL 2 COMMENTS											
WELL 3 COMMENTS											
WELL 4 COMMENTS											
WELL 5 COMMENTS											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other, explain in comments section

NOTE: Use COMMENT section to explain why each Action Code was selected

(SEE)

  
Signature \_\_\_\_\_ Kebra S. Jones  
Production Clerk \_\_\_\_\_  
Title \_\_\_\_\_ Date April 26, 2002

APR-26-02 FRI 09:20 AM INLAND PRODUCTION CO FAX NO. 435 646 3031 P. 02

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well



Oil  
Well



Gas  
Well



Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**822' FWL & 565' FSL SW/SW Sec. 22, T8S, R17E**

5. Lease Designation and Serial No.

**# UTU-77233**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**# Canvasback**

8. Well Name and No.

**# 13a-22-8-17**

9. API Well No.

**# 43-013-32238**

10. Field and Pool, or Exploratory Area

**# Monument Butte**

11. County or Parish, State

**# Duchesne, Utah.**

12. **CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

**TYPE OF SUBMISSION**



Notice of Intent



Subsequent Report



Final Abandonment Notice

**TYPE OF ACTION**



Abandonment



Recompletion



Plugging Back



Casing Repair



Altering Casing



Other

**Spud**



Change of Plans



New Construction



Non-Routine Fracturing



Water Shut-Off



Conversion to Injection



Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

On 4/16/02. MIRU Stubbs # 111. Spud well @ 8:30 am. Drill 300' of 12 1/4" hole with air mist. TIH w/ 7 Jt's 85/8" J-55 24# csgn. Set @ 306.850'/KB. On 4/17/02. Cement with 150 sks of Class "G" w/ 2% CaCL2 + 1/4# sk Cello-Flake Mixed @ 15.8 ppg > 1.17 cf/sk yeild. 2 bbls cement returned to surface. WOC.

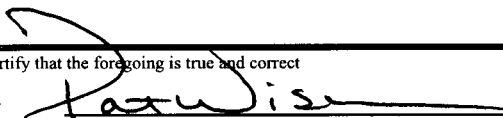
**RECEIVED**

**APR 23 2002**

**DIVISION OF  
OIL, GAS AND MINING**

14. I hereby certify that the foregoing is true and correct

Signed

  
Pat Wisener

Title

**Drilling Foreman**

Date

**04/22/2002**

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

# INLAND PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 300.65

LAST CASING 8 5/8" SET AT 300.65  
 DATUM 10' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 300' LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

OPERATOR Inland Production Company  
 WELL Canvas Back 13a-22-8-17  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # Stubbs # 111

## LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		40.05 sjt					
		WHI - 92 csg head			8rd	A	0.95
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	290.8
		<b>GUIDE</b> shoe			8rd	A	0.9

CASING INVENTORY BAL.	FEET	JTS	TOTAL LENGTH OF STRING	292.65
TOTAL LENGTH OF STRING	292.65	7	LESS CUT OFF PIECE	2
LESS NON CSG. ITEMS	1.85		PLUS DATUM TO T/CUT OFF CSG	10
PLUS FULL JTS. LEFT OUT	0		CASING SET DEPTH	<b>300.65</b>

TOTAL	290.8	7	} COMPARE	
TOTAL CSG. DEL. (W/O THRDS)	290.8	7		
TIMING	1ST STAGE	04/16/2002		
BEGIN RUN CSG.	SPUD	8:30am	GOOD CIRC THRU JOB	YES
CSG. IN HOLE			Bbls CMT CIRC TO SURFACE	6
BEGIN CIRC			RECIPROCATED PIPE FOR	THRU FT STROKE
BEGIN PUMP CMT			DID BACK PRES. VALVE HOLD ?	N/A
BEGIN DSPL. CMT			BUMPED PLUG TO	200 PSI
PLUG DOWN	Cemented	04/17/2002		

CEMENT USED	CEMENT COMPANY- <b>B. J.</b>		
STAGE	# SX	CEMENT TYPE & ADDITIVES	
1	150	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield	

CENTRALIZER & SCRATCHER PLACEMENT	SHOW MAKE & SPACING
Centralizers - Middle first, top second & third for 3	

COMPANY REPRESENTATIVE Pat Wisener DATE 04/17/2002

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

# UTU-77233

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

# Canvasback

8. Well Name and No.

# 13a-22-8-17

9. API Well No.

# 43-013-32238

10. Field and Pool, or Exploratory Area

# Monument Butte

11. County or Parish, State

# Duchesne, Utah.

**SUBMIT IN TRIPLICATE**

1. Type of Well



Oil  
Well



Gas  
Well



Other

2. Name of Operator

INLAND PRODUCTION COMPANY

3. Address and Telephone No.

Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

822' FWL & 565' FSL SW/SW Sec. 22, T8S, R17E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

**TYPE OF SUBMISSION**



Notice of Intent



Subsequent Report



Final Abandonment Notice

**TYPE OF ACTION**



Abandonment



Recompletion



Plugging Back



Casing Repair



Altering Casing



Other

**Weekly Status Report**



Change of Plans



New Construction



Non-Routine Fracturing



Water Shut-Off



Conversion to Injection



Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

On June 10, 2002. MURU Union # 14. Set equipment. Nipple up. Test BOP's, Choke manifold, Kelly, TIW. To 2,000 psi. Test 85/8" csgn to 1,500 psi. State office of DOGM & Vernal BLM was notified of the test. Ray Arnold from Vernal BLM office was present for the test. PU & MU bit # 1, MM & BHA. Tag cement @ 250'. Drill 77/8" hole with air mist to a depth of 4304'. PU & MU bit #2, MM, & BHA. Drill 77/8" hole with water based mud to a depth of 6323'. Lay down drill string. Open hole log. PU & MU Guide shoe, 1 jt 51/2" csg, Float collar & 141 jt's J-55 15.5 # 51/2" csgn. Set @ 6321'/KB. Cement with 550\* sks. 50/50 POZ w/ 3% KCL, 1/4#sk Celio-Flake, 2% Gel, .3%SMS, .05#sk Static free, Mixed @ 14.4PPG >1.24 YLD. Then 300\* sks Prem Littel w/ 3% KCL, 5#sk Kolsai, .8% Gel, .5SMS, 5#sk BA90, mixed @ 11.0PPG >3.49. Good returns thru job with 20 bbl's of 40 bbl's dye water returned to pit. Set slips with 90,000# tension. Nipple down BOP's. Release rig @ 2:00pm on 6/19/02.

**RECEIVED**

JUN 27 2002

DIVISION OF

OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct

Signed

*Pat Wisener*  
Pat Wisener

Title

Drilling Foreman

Date

06/24/2002

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:



# INLAND PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT 6321.94

Flt cllr @ 6300'

LAST CASING 8 5/8" SET AT 300.65'

OPERATOR Inland Production Company

DATUM 10' KB

WELL Canvasback 13a-22-8-17

DATUM TO CUT OFF CASING \_\_\_\_\_

FIELD/PROSPECT Monument Butte

DATUM TO BRADENHEAD FLANGE \_\_\_\_\_

CONTRACTOR & RIG # Union # 14

TD DRILLER 6323' LOGGER 6354'

HOLE SIZE 7 7/8"

## LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt					12.4
		6' Flag Jt @ 4249'					
<b>141</b>	<b>5 1/2"</b>	Newport LT & C casing	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	6290.69
		Float collar					0.6
<b>1</b>	<b>5 1/2"</b>	Newport LT&C csg	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	20
		<b>GUIDE</b> shoe			<b>8rd</b>	<b>A</b>	0.65

CASING INVENTORY BAL.	FEET	JTS	TOTAL LENGTH OF STRING	6324.34
TOTAL LENGTH OF STRING	6324.34	142	LESS CUT OFF PIECE	12.4
LESS NON CSG. ITEMS	13.65		PLUS DATUM TO T/CUT OFF CSG	10
PLUS FULL JTS. LEFT OUT			CASING SET DEPTH	<b>6321.94</b>

TOTAL	6310.69	142	} COMPARE	
TOTAL CSG. DEL. (W/O THRDS)	6310.69	142		
TIMING	1ST STAGE			
BEGIN RUN CSG.	<b>4:00AM</b>		GOOD CIRC THRU JOB	YES
CSG. IN HOLE	<b>8:00AM</b>		Bbls CMT CIRC TO SURFACE	20 bbls of 40 bbls dye water.
BEGIN CIRC	8:25AM	9:00AM	RECIPROCATED PIPE 15 mins	THRU 6' STROKE
BEGIN PUMP CMT	9:07 AM	10:03 AM	DID BACK PRES. VALVE HOLD ?	Yes
BEGIN DSPL. CMT	10:06 AM		BUMPED PLUG TO	1402 PSI
PLUG DOWN	<b>10:24 AM</b>			

CEMENT USED	CEMENT COMPANY- <b>B. J.</b>		
STAGE	# SX	CEMENT TYPE & ADDITIVES	
<b>1</b>	<b>300</b>	Premilite II w/ .5%SM+ 10% gel+ 3#/ sk BA 90+ 2# sk/kolseal + 3% KCL + 1/4# sk staticfree	
		mixed @ 11.0 ppg W / 3.43 cf/sk yield	
<b>2</b>	<b>550</b>	50/50 poz W/ 3% KCL, 1/4# sk C.F. 2% gel. 3% SMS. 1R3. .05# sk staticfree mixed @ 14.4 ppg W/ 1.24	

CENTRALIZER & SCRATCHER PLACEMENT	SHOW MAKE & SPACING
Centralizers - Middle first, top second & third for 3	

RECEIVED

JUN 27 2002

COMPANY REPRESENTATIVE Ray Herrera

DIVISION OF OIL, GAS AND MINING DATE 06/19/2002

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING**REPORT OF WATER ENCOUNTERED DURING DRILLING**Well name and number: Canvasback 13a-22-8-17API number: 43-013-32238Well Location: QQ SW/SW Section 22 Township 8S Range 17E County DuchesneWell Operator: INLAND PRODUCTION COMPANYAddress: Route 3 Box 3630Myton, Utah 84052Phone: 435-646-3721Drilling Contractor: Union DrillingAddress: Drawer 40Buckhannon, WV 26201Phone: 304-472-4610

Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
3438'	3470	12 Gals/Hour	(salty)

Formation Tops: Surface ( Uinta )**RECEIVED**

JUN 27 2002

DIVISION OF  
OIL, GAS AND MINING

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

YES

I hereby certify that this report is true and complete to the best of my knowledge.

Date: 06/24/02Name & Signature: Kat WisenTime: 10:00 AM

Analytical Laboratory Report for:  
Inland Production



BJ Unichem  
Chemical Services

UNICHEM Representative: Rick Crosby

## Production Water Analysis

Listed below please find water analysis report from: CB, 13A-22-8-17

Lab Test No: 2002401896      Sample Date: 06/13/2002  
Specific Gravity: 1.030  
TDS: 44750  
pH: 9.60

Cations:	mg/L	as:
Calcium	40	(Ca <sup>++</sup> )
Magnesium	73	(Mg <sup>++</sup> )
Sodium	15433	(Na <sup>+</sup> )
Iron	4.00	(Fe <sup>++</sup> )
Manganese	0.00	(Mn <sup>++</sup> )
Anions:	mg/L	as:
Bicarbonate	12200	(HCO <sub>3</sub> <sup>-</sup> )
Sulfate	0	(SO <sub>4</sub> <sup>-</sup> )
Chloride	17000	(Cl <sup>-</sup> )
Gases:		
Carbon Dioxide		(CO <sub>2</sub> )
Hydrogen Sulfide	0	(H <sub>2</sub> S)

Lab Comments:  
3438'

RECEIVED

JUN 27 2002

DIVISION OF  
OIL, GAS AND MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

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Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

**UTU-77233**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**CANVASBACK**

8. Well Name and No.

**CANVASBACK 13A-22-8-17**

9. API Well No.

**43-013-32238**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTA**

**SUBMIT IN TRIPLICATE**

1. Type of Well



Oil  
Well



Gas  
Well



Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**565 FSL 822 FWL SW/SW Section 22, T8S R17E**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

**TYPE OF SUBMISSION**



Notice of Intent



Subsequent Report



Final Abandonment Notice



Abandonment



Recompletion



Plugging Back



Casing Repair



Altering Casing



Other

**Status report**

**TYPE OF ACTION**



Change of Plans



New Construction



Non-Routine Fracturing



Water Shut-Off



Conversion to Injection



Dispose Water

(Note: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Status report for time period 6/24/02 through 6/30/02.

Completion procedures were initiated in the Green River formation (without use of a service rig) on 6/26/02. A total of six (6) intervals were perforated and hydraulically fracture treated using composite flow-through frac plugs between stages. All fracs were flowed back through chokes. A service rig was moved on well on 6/29/02 and is in the process of drilling out plugs.

**RECEIVED**

**JUL 02 2002**

**DIVISION OF  
OIL, GAS AND MINING**

14. I hereby certify that the foregoing is true and correct

Signed

*Gary Dietz*

Title

**Completion Foreman**

Date

**7/1/2002**

**Gary Dietz**

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

**UTU-77233**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**CANVASBACK**

8. Well Name and No.

**CANVASBACK 13A-22-8-17**

9. API Well No.

**43-013-32238**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTA**

**SUBMIT IN TRIPLICATE**

1. Type of Well



Oil  
Well



Gas  
Well



Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**565 FSL 822 FWL SW/SW Section 22, T8S R17E**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

**TYPE OF SUBMISSION**



Notice of Intent



Subsequent Report



Final Abandonment Notice



Abandonment



Recompletion



Plugging Back



Casing Repair



Altering Casing



Other

**Status report**

**TYPE OF ACTION**



Change of Plans



New Construction



Non-Routine Fracturing



Water Shut-Off



Conversion to Injection



Dispose Water

(Note: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Status report for time period 7/1/02 through 7/7/02.

Completion procedures were initiated in the Green River formation (without use of a service rig) on 6/26/02. A total of six (6) intervals were perforated and hydraulically fracture treated using composite flow-through frac plugs between stages. All fracs were flowed back through chokes. A service rig was moved on well on 6/29/02. Composite bridge plugs were drilled out and well was cleaned out to PBTD @ 6300'. Zones were swab tested for sand cleanup. Production equipment was ran in well. Well began producing via rod pump on 7/3/02.

**RECEIVED**

**JUL 10 2002**

**DIVISION OF  
OIL, GAS AND MINING**

14. I hereby certify that the foregoing is true and correct.

Signed

*Gary Dietz*  
Gary Dietz

Title

Completion Foreman

Date

7/5/2002

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.

UTU-77233

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

## 1a. TYPE OF WORK

OIL  
WELLGAS  
WELL

DRY



Other

## 1b. TYPE OF WELL

NEW  
WELLWORK  
OVER

DEEPEN

PLUG  
BACKDIFF  
RESVR.

Other

7. UNIT AGREEMENT NAME

Monument Butte

8. FARM OR LEASE NAME, WELL NO.

Canvasback #13A-22-8-17

2. NAME OF OPERATOR

INLAND RESOURCES INC.

9. WELL NO.

43-013-32238

3. ADDRESS AND TELEPHONE NO.

410 17th St. Suite 700 Denver, CO 80202

10. FIELD AND POOL OR WILDCAT

Monument Butte

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)\*

At Surface 565' FSL &amp; 822' FWL SWSW Sec. 22, Twp 8S, Rng 17E

11. SEC., T., R., M., OR BLOCK AND SURVEY  
OR AREA

Sec. 22, Twp 8S, Rng 17E

At top prod. Interval reported below

At total depth

14. API NO.

43-013-32238

DATE ISSUED

4/02/01

12. COUNTY OR PARISH

Duchesne

13. STATE

UT

15. DATE SPUDDED

4/16/02

16. DATE T.D. REACHED

6/18/02

17. DATE COMPL. (Ready to prod.)

7/03/02

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

GR 5161'

19. ELEV. CASINGHEAD

KB 5171'

20. TOTAL DEPTH, MD &amp; TVD

6354'

21. PLUG BACK T.D., MD &amp; TVD

6300'

22. IF MULTIPLE COMPL.,  
HOW MANY\*23. INTERVALS  
DRILLED BY  
----->

ROTARY TOOLS

X

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\*

Green River 4599'-6109'

25. WAS DIRECTIONAL  
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

7-19-02  
DIGI/SP/CDL/GR/Cal-7-26-02

27. WAS WELL CORED

No

## 23. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" - J-55	24#	300.65'	12-1/4"	To surface with 150 sx Class "G" cmt	
5-1/2" - J-55	15.5#	6321.94'	7-7/8"	300 sx Premlite II and 550 sx 50/50 Poz	

## 29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	EOT @	TA @
						6176'	6010'

## 30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL	SIZE	SPF/NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
P2 sands) 6023-34', 6036-40', 6042-51', 6104-09'	.038"	4/116	6023'-6109'	Frac w/ 102,208# 20/40 sand in 751 bbls fluid.
(BS sands) 5782-5846', 5894-99', 5905-07', 5910-12', 5944-46', 5948-53'	.038"	4/320	5782'-5953'	Frac w/ 151,000# 20/40 sand in 1013 bbls fluid.
(LODC sands) 5594-5604', 5690-98', 5706-10', 5722-44', 5753-74'	.038"	4/260	5594'-5774'	Frac w/ 204,340# 20/40 sand in 1316 bbls fluid.
(B sand) 5411'-5414'	.038"	4/12	5411'-5414'	Frac w/ 20,620# 20/40 sand in 269 bbls fluid.
(D1, D3 sands) 5188-94', 5276-80'	.038"	4/40	5188'-5280'	Frac w/ 40,436# 20/40 sand in 390 bbls fluid.
0, GB4, 6 sands) 4599-4606', 4687-93', 4868-71'	.038"	4/64	4599'-4871'	Frac w/ 64,340# 20/40 sand in 403 bbls fluid.

## 33.\* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)				WELL STATUS (Producing or shut-in)	
7/03/02		2-1/2" x 1-1/2" x 15' RHAC Pump				PRODUCING	
DATE OF TEST		HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBL.	GAS--MCF.	WATER--BBL.
10 day ave					83	90	
FLOW. TUBING PRESS.		CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL--BBL.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO
							1084

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold &amp; Used for Fuel

TEST WITNESSED BY 4/16/01 2002

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Brian Harris

TITLE

Engineering Technician

DATE

8/6/2002

BDH

\*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
			<div>Well Name</div> <div>Canvasback #13A-22-8-17</div>	Garden Gulch Mkr Garden Gulch 2 Point 3 Mkr X Mkr Y-Mkr Douglas Creek Mkr BiCarbonate Mkr B Limestone Mkr Castle Peak Basal Carbonate Total Depth (LOGGERS)	4148' 4457' 4731' 4955' 4994' 5137' 5380' 5526' 5986' 6323'	



August 6, 2002

State of Utah, Division of Oil, Gas and Mining  
Attn: Ms. Carol Daneils  
P.O. Box 145801  
Salt Lake City, Utah 84144-5801

Attn: Ms. Carol Daneils

Canvasback #13A-22-8-17 (43-013-32238)  
Duchesne County, UT

Dear Ms. Carol Daneils

Enclosed is a Well Completion or Recompletion Report and Log form (Form 3160-4). We are no longer sending Log copies since Dave Jull of Phoenix Surveys is already doing so.

If you should have any questions, please contact me at (303) 382-4449.

Sincerely,

Brian Harris  
Engineering Tech

Enclosures

cc: Bureau of Land Management  
Vernal District Office, Division of Minerals  
Attn: Edwin I. Forsman  
170 South 500 East  
Vernal, Utah 84078

Well File – Denver  
Well File – Roosevelt  
Patsy Barreau/Denver  
Bob Jewett/Denver  
Tara Eisler/Denver

RECEIVED

AUG 08 2002

DIVISION OF  
OIL, GAS AND MINING





# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
(801) 538-5340 telephone  
(801) 359-3940 fax  
(801) 538-7223 TTY  
[www.nr.utah.gov](http://www.nr.utah.gov)

Michael O. Leavitt  
Governor

Robert L. Morgan  
Executive Director

Lowell P. Braxton  
Division Director

February 4, 2003

Inland Production Company  
410 Seventeenth Street, Suite 700  
Denver, Colorado 80202

Re: Canvasback Unit Well: Canvasback 13A-22-8-17, Section 22, Township 8 South,  
Range 17 East, Duchesne County, Utah

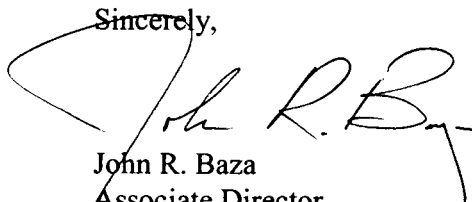
Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Inland Production Company.
3. A casing\tubing pressure test shall be conducted prior to commencing injection.

If you have any questions regarding this approval or the necessary requirements, please contact Brad Hill at (801) 538-5315 or Dan Jarvis at (801) 538-5338.

Sincerely,



John R. Baza  
Associate Director

er

cc: Dan Jackson, Environmental Protection Agency  
Bureau of Land Management, Vernal  
Inland Production Company, Myton

**DIVISION OF OIL, GAS AND MINING**  
**UNDERGROUND INJECTION CONTROL PROGRAM**  
**PERMIT**  
**STATEMENT OF BASIS**

**Applicant:** Inland Production Company

**Well:** Canvasback 13A-22-8-17

**Location:** 22/8S/17E

**API:** 43-013-32238

**Ownership Issues:** The proposed well is located on BLM land. The well is located in the Canvasback Unit. Lands in the one-half mile radius of the well are administered by the BLM and private landowners. The Federal Government and private individuals are the mineral owners within the area of review. Inland and other various individuals hold the leases in the unit. Inland has provided a list of all surface, mineral and lease holders in the half-mile radius. Inland is the operator of the Canvasback Unit. Inland has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

**Well Integrity:** The proposed well has surface casing set at 301 feet and has a cement top at the surface. A 5 ½ inch production casing is set at 6354'. A cement bond log demonstrates adequate bond in this well up to 780 feet. A 2 7/8 inch tubing with a packer will be set at 4532. A mechanical integrity test will be run on the well prior to injection. There are 6 producing wells and 2 injection wells in the area of review. All of the wells have evidence of adequate casing and cement. No corrective action will be required.

**Ground Water Protection:** According to Technical Publication No. 92 the base of moderately saline water is at a depth of approximately 200 feet. Injection shall be limited to the interval between 4457 feet and 6300 feet in the Green River Formation. All of these perforations will not be opened initially. Each time that new perforations are added and the packer is moved or disturbed an MIT shall be run to provide evidence of mechanical integrity. Information submitted by Inland indicates that the fracture gradient for the 13A-22-8-17 well is .76 psi/ft. which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1674 psig. The requested maximum pressure is 1674 psig. The anticipated average injection pressure is 1100 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any ground water present should be adequately protected.

**Canvasback 13A-22-8-17**  
**page 2**

**Oil/Gas& Other Mineral Resources Protection:** The Board of Oil, Gas & Mining approved the Canvasback Unit September 23, 1998 . Correlative rights issues were addressed at this time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

**Bonding:** Bonded with the BLM

**Actions Taken and Further Approvals Needed:** A notice of agency action has been sent to the Salt Lake Tribune and the Uinta Basin Standard. A casing/tubing pressure test will be required prior to injection. It is recommended that approval of this application be granted.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): Brad Hill Date 02/04/2003

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

UTU-77233

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

CANVASBACK

8. Well Name and No.

CANVASBACK 13A-22-8-17

9. API Well No.

43-013-32238

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE COUNTY, UT

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

INLAND PRODUCTION COMPANY

3. Address and Telephone No.

Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

565 FSL 822 FWL SW/SW Section 22, T8S R17E

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☒ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Formation water is produced to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Inland's secondary recovery project.

Water not meeting quality criteria, is disposed at Inland's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

14. I hereby certify that the foregoing is true and correct

Signed

*Mandie Crozier*  
Mandie Crozier

Title

Regulatory Specialist

Date

11/13/2003

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

CC: Utah DOGM

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NOV 17 2003



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8  
999 18<sup>TH</sup> STREET - SUITE 300  
DENVER, CO 80202-2466  
Phone 800-227-8917  
<http://www.epa.gov/region08>

JUL 21 2004

RECEIVED  
JUL 26 2004

DIV. OF OIL, GAS & MINING

Ref: 8P-W-GW

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Mr. David Gerbig  
Operations Engineer  
Inland Production Co.  
1401 Seventeenth Street - Suite 1000  
Denver, CO 80202

**RE: ADDITIONAL WELL: CANVASBACK AREA  
PERMIT**

Area Permit ID: UT20855-00000  
Canvasback No. 13A-22-8-17  
Well ID: UT20855-04682  
Duchesne County, Utah

Dear Mr. Gerbig:

The Inland Production Co. (Inland) request to convert a former Garden Gulch-Douglas Creek Members of the Green River Formation oil well, the Canvasback No. 13A-22-8-17, to a Green River Formation Garden Gulch-Douglas Creek-Basal Carbonate Members enhanced recovery injection well is hereby authorized. The proposed Canvasback No. 13A-22-8-17 Class II enhanced recovery injection well is within the exterior boundary of the Canvasback Area Permit UT20855-00000; is within the exterior boundary of the Uintah & Ouray Indian Reservation; and the addition is being made under the authority of 40 CFR § 144.33 (c), and the terms of the Canvasback Area Permit. Unless specifically mentioned in the enclosed Authorization For An Additional Well, all terms and conditions of the original Area Permit will apply to the conversion, operation, monitoring, and plugging of the Canvasback No. 13A-22-8-17.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**



Printed on Recycled Paper

Prior to beginning injection, the Environmental Protection Agency (EPA) requires that Inland submit for review and approval (1) the results of a Part I (Internal) **mechanical integrity test** (MIT), (2) a **pore pressure** calculation of the injection interval, and (3) an EPA Form No. 7520-12 (**Well Rework Record**) enclosed.

The Area Permit UT20855-00000, Part II. Section C. Condition No. 5, (b), (Injection Pressure Limitation), does not limit ADDITIONAL WELLS TO THE AREA PERMIT to a minimum surface injection pressure. Rather, Part II, C. 5.(b) does limit calculation of a Maximum Surface Injection Pressure (MSIP) to a MSIP based upon a Fracture Gradient of 0.70 psi/ft, **unless** the applicant submits a FG calculated from a sand\frac treatment of the injection interval. The EPA has reviewed and approved a submitted FG of 0.76 psi/ft, calculated from a sand/frac treatment. The 0.76 psi/ft is within a range of Step-Rate Test (SRT) derived FGs observed in T8S - R17E. The EPA **authorizes an initial maximum surface injection pressure that shall not exceed 1495 MIP**. The Canvasback Area Permit, Part II. C. 5., provides an opportunity for the permittee to request an increase, or decrease, in the initial maximum surface injection pressure.

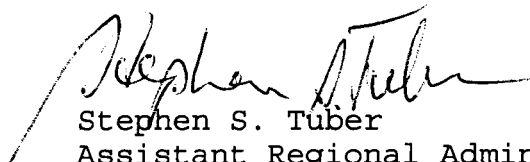
Please be aware that Inland does not have authorization to begin injection into the Canvasback No. 13A-22-8-17 until the Prior to Commencing Injection requirements, listed above, have been submitted and evaluated by the EPA, and Inland has received written authorization to begin injection from the Assistant Regional Administrator, or the Assistant Regional Administrator's authorized representative.

Please note that the EPA has modified the Permit Authorization Identification (ID) number **from UT2855 to UT20855**. **The Well ID remains UT04682**. In all future correspondence to the EPA relative to the Canvasback No. 13A-22-8-17 please use the ID number **UT20855-04682**. Reference to the Boundary Area Permit will be **UT20855-00000**.

Pages seven (7) and eight (8) of the enclosed AUTHORIZATION FOR AN ADDITIONAL WELL, and specifically PART III. E., describe phone numbers to be used in the event of Permit noncompliance. Please familiarize yourself with the new reporting telephone numbers.

If Inland Production Co. has any questions, please call Mr. Dan Jackson at (800) 227-8917 (Ext. 6155). Please submit the required pre-authorization to inject data to the ATTENTION: DAN JACKSON, at the letterhead address, citing MAIL CODE: 8P-W-GW very prominently.

Sincerely,



Stephen S. Tuber  
Assistant Regional Administrator  
Office of Partnerships and  
Regulatory Assistance

enclosures: Authorization For An Additional Well  
Schematic Diagram: Proposed Conversion  
EPA Form No. 7520-12 (Well Rework Record)

cc w/enclosures: Maxine Natchees  
Chairperson  
Uintah & Ouray Business Committee  
Ute Indian Tribe  
P.O. Box 190  
Fort Duchesne, UT 84026

Elaine Willie  
Environmental Director  
Ute Indian Tribe  
P.O. Box 460  
Fort Duchesne, UT 84026

Chester Mills  
Superintendent  
Bureau of Indian Affairs  
Uintah & Ouray Indian Agency  
P.O. Box 190  
Fort Duchesne, UT 84026

Mike Guinn  
Vice President - Operations  
Inland production Company  
Route 3 - Box 3630  
Myton, UT 84502

Gil Hunt  
Technical Services Manager  
State of Utah Natural Resources  
Division of Oil, Gas, and Mining  
1594 West North Temple - Suite 1220  
Salt Lake City, UT 84114-5801

Jerry Kenczka  
Petroleum Engineer  
Bureau of Land Management  
170 South 500 East  
Vernal, UT 84078





**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

**REGION 8**  
**999 18<sup>TH</sup> STREET - SUITE 300**  
**DENVER, CO 80202-2466**  
**Phone 800-227-8917**  
**<http://www.epa.gov/region08>**

**AUTHORIZATION FOR AN ADDITIONAL WELL  
TO THE  
CANVASBACK AREA PERMIT: UT20855-00000**

The Environmental Protection Agency (EPA) authorizes the inclusion of an additional enhanced recovery injection well to the Canvasback Area Permit No. UT20855-00000, as authorized by 40 CFR § 144.33 (c). The additional well is described as:

**WELL NAME: CANVASBACK NO. 13A-22-8-17**  
**WELL PERMIT NUMBER: UT20855-04682**

**SURFACE LOCATION: 565' FSL & 822' FWL (SW SW)**  
**Sec. 22 - T8S - R17E**  
**Duchesne County, Utah.**

This well is subject to all provisions of the original Canvasback Area Permit UT20855-00000, and subsequent Modifications, unless specifically detailed below:

**UNDERGROUND SOURCE OF DRINKING WATER (USDW):** The base of the USDW in the Canvasback No. 13A-22-8-17 occurs near the surface, within the Uinta Formation. The source for the location of the base of the USDW is the STATE OF UTAH: PUBLICATION NO. 2. BASE OF MODERATELY SALINE GROUND WATER IN THE UINTA BASIN, UTAH. Surface casing was set at **300 feet** and cemented to the surface.

**POSTPONEMENT OF CONVERSION:** The permittee shall notify the Director if the Canvasback No. 13A-22-8-17 is not converted within one (1) year of the effective date of this Authorization of an Additional Well within the Canvasback Area Permit UT20855-00000. Authorization to convert and operate shall expire if the Canvasback No. 13A-22-8-17 has not been converted, and the application for the addition of the subject well will have to be resubmitted.

**CONFINING ZONE REVIEW: CANVASBACK NO. 13A-22-8-17.**

In the Canvasback No, 13A-22-8-17, the EPA identifies the confining zone directly overlying the top of the Garden Gulch as a 52-foot silty, black organic shale and argillaceous silt from **4092 feet to 4144 feet (CBL/GR)**. The top of the Garden Gulch Member is **4144 feet (CBL/GR)**.



The EPA analysis of the CBL/GR shows the shallowest interval of 80% annulus cement bond index to be from 4365 feet to 4497 feet.

Total depth (6354 feet) is in the basal Douglas Creek Member.

## **PART II. A. CONSTRUCTION REQUIREMENTS FOR ADDITIONAL WELLS**

### **Tubing and Packer:**

(Condition 3)

For injection purposes, the **Canvasback NO. 13A-22-8-17** will be equipped with 2-7/8 tubing with a packer to be set at a depth no higher than 100 feet above the top perforation.

### **Formation Testing and Logging**

(Condition 6)

- (a) Upon conversion of the **Canvasback no. 13A-22-8-17**, the permittee is required to determine the injection zone **fluid pore pressure** (static bottom hole pressure) prior to commencement of enhanced recovery injection operation. The results of this test shall be submitted to the EPA.
- (b) A **step-rate test (SRT)** shall be performed on the **Canvasback No. 13A-22-8-17** within three (3) to six (6) months after injection operations are initiated. The results shall be submitted to the EPA. The permittee will contact the EPA prior to conducting the SRT to acquire the most current Guidance for conducting the SRT.

## **PART II. B.**

### **Corrective Action:**

As of July 2004, there is one (1) Garden Gulch-Douglas Creek Members enhanced recovery injection well (UT20702-04449), and four (4) Garden Gulch-Douglas Creek Members oil wells, and one (1) Douglas Creek Member oil well within or proximate to one-quarter (1/4) mile of the proposed injection well.

No well requires corrective action. The following well data is to present the wells currently in the one-quarter (1/4) mile Area-of-Review around the Canvasback 13A-22-8-17.

### **Garden Gulch-Douglas Creek Members Enhanced Recovery Injection Well :**

<b><u>Boundary Federal No. 9-21-8-17:</u></b>	<b>(SE SE Sec. 27 - T8S - R17E)</b>
<b><u>EPA Permit No. UT20702-04449</u></b>	<b>(Boundary Area Permit)</b>
Issued and Authorized for conversion: May 14, 1998	
Authorized for Injection: April 22, 1999 (Required RATS within 6 months)	
Authority to Continue Injection: July 26, 2001 (RATS approved).	

**Canvasback No. 14-22-8-17****(SE SW Sec. 22 - T8S - R17E)**

Confining Zone:	4119 feet to 4183 feet
Top Garden Gulch Member:	4183 feet
80% Bond Index Cement Bond:	3800 feet to 4100 feet
80% Bond Index cement Bond:	4216 feet to 4238 feet

The confining zone, immediately above the top of the Garden Gulch Member, has no 80% annulus bond index cement bond.

When a fluid leak is observed at the surface of the Canvasback No. 14-22-8-17, the permittee will suspend injection into the Canvasback No. 13A-22-8-17 and the injection well will stay suspended until the noncompliance has been resolved, and renewed injection has been approved in writing by the Director.

**Douglas Creek Member Oil Well:****Greater Boundary No. 1-28-8-17****(NE NE Sec. 28 - T8S - R17E)**

Confining Zone:	4071 feet to 4145 feet
Top Garden Gulch Member:	4145 feet
80% Bond Index Cement Bond:	4092 feet to 4112 feet

The confining zone, immediately above the top of the Garden Gulch Member, has no 80% bond index cement bond. When a fluid leak is observed at the surface of the Greater Boundary No. 1-28-8-17, the permittee will suspend injection into the Canvasback No. 13A-22-8-17 and the injection well will stay suspended until the non-compliance has been resolved, and renewed injection has been approved in writing by the Director.

**PART II. C.****Prior to Commencing Injection (Additional Wells):****(Condition 2)**

**Canvasback No. 13A-22-8-17:** This document is being issued without authority to inject. Prior to beginning injection, the operator is required to submit the following information for EPA review and written approval:

- A successful **mechanical integrity test (MIT)** demonstrating Part I (Internal) MI (Enclosed),
- a **pore pressure calculation** of the proposed injection zone; and an
- EPA Form No. 7520-12 (**Well Rework Record**) enclosed.

Area Permit (UT20855-00000), has a provision whereby the operator may request an increase, or decrease, in the maximum surface injection pressure.

## **PART II. F.**

### **Demonstration of Financial Responsibility:**

(Condition 1)

The applicant has chosen to demonstrate financial responsibility via a Financial Statement.. This document has been reviewed and approved by the EPA.

## **PART III. E.**

### **Reporting of Noncompliance:**

(Condition 10)

- (a) **Anticipated Noncompliance.** The operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with Permit requirements.
- (b) **Compliance Schedules.** Reports of compliance or noncompliance with or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted **no later than thirty (30) days following each schedule date.**
- (c) **Written Notice** of any noncompliance which may endanger health or the environment **shall be provided to the Director within five (5) days** of the time the operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause; the period of noncompliance including dates and times; if the noncompliance has not been corrected the anticipated time it is expected to continue; and steps taken or planned to prevent or reduce recurrence of the noncompliance.

### **Twenty-Four Hour Noncompliance Reporting:**

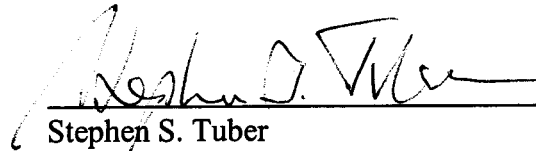
(Condition 11)

**The operator shall report to the Director any noncompliance which may endanger health or environment.** Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the operator becomes aware of the circumstances by telephoning 1.800.227.8917 and asking for the **EPA Region VIII UIC Program Compliance and Enforcement Director**, or by contacting the **Region VIII Emergency Operations Center at 303.293.1788** if calling from outside the EPA Region VIII. The following information shall be included in the verbal report:

PLUG NO. 3: Perforate 4 shots at 3551 feet. Circulate 110 sacks of Class "G" cement down 5-1/2 inch casing and up the 5-1/2 inch X 8-5/8 inch annulus from 3551 feet to the surface.

This authorization for well conversion of the Canvasback No. 13A-22-8-17 to an enhanced recovery injection well becomes effective upon signature.

Date: JUL 21 2004



Stephen S. Tuber  
Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

# Canvasback #13A-22-8-17

Spud Date: 4/16/02  
Put on Production: 7/03/02  
GL: 5161' KB: 5171'

Proposed Injection  
Wellbore Diagram

Initial Production: 83 BOPD,  
90 MCFD, 6 BWPD

## SURFACE CASING

CSG SIZE: 8-5/8" *450W's @ Surface*  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (292.65')  
DEPTH LANDED: 300.65'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 150 sxs Class "G" cmt, est 6 bbls cmt to surf.

## PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55 *Green River Fm.*  
WEIGHT: 15.5#  
LENGTH: 142 jts. (6324.34')  
DEPTH LANDED: 6321.94'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 550 sxs 50/50 POZ.  
CEMENT TOP AT: 650' per CBL

## TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 186 jts (6000.95')  
TUBING ANCHOR: 6010.95'  
NO. OF JOINTS: 3 jts (96.94')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 6110.69' KB  
NO. OF JOINTS: 2 jts (64.66')  
TOTAL STRING LENGTH: EOT @ 6167.90'

## FRAC JOB

6/27/02 6023'-6109' **Frac CP sand as follows:**  
102,280# 20/40 sand in 751 bbls Viking I-25 fluid. Treated @ avg press of 1625 psi w/avg rate of 25.5 BPM. ISIP 2150 psi. Calc flush: 6023 gal. Actual flush: 5964 gal.

6/27/02 5782'-5953' **Frac BS sand as follows:**  
151,000# 20/40 sand in 1013 bbls Viking I-25 fluid. Treated @ avg press of 2550 psi w/avg rate of 24.7 BPM. ISIP 3300 psi. Calc flush: 5782 gal. Actual flush: 5953 gal.

6/27/02 5594'-5774' **Frac LODC sand as follows:**  
204,340# 20/40 sand in 1316 bbls Viking I-25 fluid. Treated @ avg press of 1600 psi w/avg rate of 26 BPM. ISIP 1990 psi. Calc flush: 5594 gal. Actual flush: 5502 gal.

6/27/02 5411'-5414' **Frac B-5 sand as follows:**  
20,626# 20/40 sand in 269 bbls Viking I-25 fluid. Treated @ avg press of 2490 psi w/avg rate of 26 BPM. ISIP 1975 psi. Calc flush: 5411 gal. Actual flush: 5334 gal.

6/27/02 5188'-5280' **Frac D1, D3 sands as follows:**  
40,436# 20/40 sand in 390 bbls Viking I-25 fluid. Treated @ avg press of 1630 psi w/avg rate of 26.1 BPM. ISIP 1700 psi. Calc flush: 5188 gal. Actual flush: 5082 gal.

6/28/02 4599'-4693' **Frac GB4, GB6 sands as follows:**  
64,340# 20/40 sand in 403 bbls Viking I-25 fluid. Treated @ avg press of 1890 psi w/avg rate of 26 BPM. ISIP 1940 psi. Calc flush: 4599 gal. Actual flush: 4536 gal.

*Confining Zone*  
*4092'-4144'*  
*Green Gulch Mem 4144'*

*4365'-4497' 80% EPA Cement*  
Packer at 4532'

*5134' Douglas Green Mem-*

## PERFORATION RECORD

Date	Interval	Tool	Holes
7/27/02	6104'-6109'	4 JSPF	20 holes
7/27/02	6042'-6051'	4 JSPF	36 holes
7/27/02	6036'-6040'	4 JSPF	16 holes
7/27/02	6023'-6034'	4 JSPF	44 holes
7/27/02	5948'-5953'	4 JSPF	20 holes
7/27/02	5944'-5946'	4 JSPF	08 holes
7/27/02	5910'-5912'	4 JSPF	08 holes
7/27/02	5905'-5907'	4 JSPF	08 holes
7/27/02	5894'-5899'	4 JSPF	20 holes
7/27/02	5782'-5846'	4 JSPF	256 holes
7/27/02	5853'-5774'	4 JSPF	84 holes
7/27/02	5722'-5744'	4 JSPF	88 holes
7/27/02	5706'-5710'	4 JSPF	16 holes
7/27/02	5690'-5698'	4 JSPF	32 holes
7/27/02	5594'-5604'	4 JSPF	40 holes
7/27/02	5411'-5414'	4 JSPF	12 holes
7/27/02	5276'-5280'	4 JSPF	16 holes
7/27/02	5188'-5194'	4 JSPF	24 holes
7/28/02	4868'-4871'	4 JSPF	12 holes
7/28/02	4687'-4693'	4 JSPF	24 holes
7/28/02	4599'-4606'	4 JSPF	28 holes

SN @ 6110'  
PBTB @ 6300'  
TD @ 6354'



**Inland Resources Inc.**

Canvasback #13A-22-8-17

565' FSL & 822' FWL

SWSW Section 22-T8S-R17E

Duchesne Co, Utah

API #43-013-32238; Lease #UTU-77233

JM 8/14/02

## WELL REWORK RECORD

NAME AND ADDRESS OF CONTRACTOR

**PERMIT NUMBER**

1/4 of 1/4 of 1/4 of 1/4 of Section Township Range

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Location \_\_\_\_\_ ft. from (N/S) \_\_\_\_\_ Line of quarter section

and \_\_\_\_\_ ft. from (E/W) \_\_\_\_\_ Line of quarter section

## WELL ACTIVITY

- ☐ Brine Disposal
- ☐ Enhanced Recovery
- ☐ Hydrocarbon Storage

**Lease Name****Total Depth Before Rework**

### Total Depth After Rework

**Date Rework Commenced**

**Data Rework Completed**

**TYPE OF PERMIT**

☐ Individual  
☐ Area  
Number of Wells \_\_\_\_\_

Well Number

### WELL CASING RECORD — BEFORE REWORK

[illegible]

**WELL CASING RECORD — AFTER REWORK** *(Indicate Additions and Changes Only)*

[illegible]**WIRE LINE LOGS, LIST EACH TYPE**

### Log Types

### Logged Intervals

## CERTIFICATION

***I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).***

NAME AND OFFICIAL TITLE (Please type or print)

**SIGNATURE**

**DATE SIGNED**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 300  
DENVER, COLORADO 80202-2466

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 37  
Demonstrating Part II (external) Mechanical Integrity  
for a Class II injection well permit.

FROM: Tom Pike, Chief  
UIC Direct Implementation Section

TO: All Section Staff  
Montana Operations Office

During the review for a Class II injection well permit, consideration must be given to the mechanical integrity (MI) of the well. MI demonstrates that the well is in sound condition and that the well is constructed in a manner that prevents injected fluids from entering any formation other than the authorized injection formation.

A demonstration of MI is a two part process:

PART I - INTERNAL MECHANICAL INTEGRITY is an assurance that there are no significant leaks in the casing/tubing/packer system.

PART II - EXTERNAL MECHANICAL INTEGRITY demonstrates that after fluid is injected into the formation, the injected fluids will not migrate out of the authorized injection interval through vertical channels adjacent to the wellbore.

A Class II injection well may demonstrate Part II MI by showing that injected fluids remain within the authorized injection interval. This may be accomplished as follows:

- 1) Cement bond log showing 80% bond through the an appropriate interval (Section Guidance 34),
- 2) Radioactive tracer survey conducted according to a EPA-approved procedure, or
- 3) Temperature survey conducted according to a EPA-approved procedure (Section Guidance 38).

For each test option above, the operator of the injection well should submit a plan for conducting the test. The plan will then be approved (or modified and approved) by EPA. EPA's pre-approval of the testing method will assure the operator that the



test is conducted consistent with current EPA guidance, and that the test will provide meaningful results.

Part II MI may be demonstrated either before or after issuing the Final Permit. However, if Part II is to be demonstrated after the Final Permit is issued, a provision in the permit will require the demonstration of Part II MI. The well will also be required to pass Part II MI prior to granting authorization to inject.

Radioactive tracer surveys and temperature surveys require that the well be allowed to inject fluids as part of the procedure. In these cases, a well that has shown no other demonstration of Part II MI will be allowed to inject only that volume of fluid that is necessary to conduct the appropriate test.

After the results of the test proves that the well has passed Part II MI, the well will be given authorization to begin full injection operations.

If any of the tests show a lack of Part II MI, the well will be repaired and retested, or plugged (See Headquarters Guidance #76).

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Test conducted by: \_\_\_\_\_

Others present: \_\_\_\_\_

Well Name: _____	Type: ER SWD	Status: AC TA UC
Field: _____		
Location: _____	Sec: _____	T _____ N/S R _____ E/W County: _____ State: _____
Operator: _____		
Last MIT: ____/____/____	Maximum Allowable Pressure: _____	PSIG

Is this a regularly scheduled test? ☐ Yes ☐ No

Initial test for permit? ☐ Yes ☐ No

Test after well rework? ☐ Yes ☐ No

Well injecting during test? ☐ Yes ☐ No If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: \_\_\_\_\_ psig

MITDATA TABLE		Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>				
Initial Pressure	psig	psig	psig	psig
End of test pressure	psig	psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>				
0 minutes	psig	psig	psig	psig
5 minutes	psig	psig	psig	psig
10 minutes	psig	psig	psig	psig
15 minutes	psig	psig	psig	psig
20 minutes	psig	psig	psig	psig
25 minutes	psig	psig	psig	psig
30 minutes	psig	psig	psig	psig
_____ minutes	psig	psig	psig	psig
_____ minutes	psig	psig	psig	psig
<b>RESULT</b>	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☐ No



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155  
<http://www.blm.gov>



IN REPLY REFER TO:  
3106  
(UT-924)

September 16, 2004

### Memorandum

To: Vernal Field Office

From: Acting Chief, Branch of Fluid Minerals

Subject: Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Michael Coulthard  
Acting Chief, Branch of  
Fluid Minerals

### Enclosure

1. State of Texas Certificate of Registration

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225  
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114  
Teresa Thompson  
Joe Incardine  
Connie Seare

UTSL-	15855	61052	73088	76561	
071572A	16535	62848	73089	76787	
065914	16539	63073B	73520A	76808	
	16544	63073D	74108	76813	
	17036	63073E	74805	76954	63073X
	17424	63073O	74806	76956	63098A
	18048	64917	74807	77233	68528A
UTU-	18399	64379	74808	77234	72086A
	19267	64380	74389	77235	72613A
02458	26026A	64381	74390	77337	73520X
03563	30096	64805	74391	77338	74477X
03563A	30103	64806	74392	77339	75023X
04493	31260	64917	74393	77357	76189X
05843	33992	65207	74398	77359	76331X
07978	34173	65210	74399	77365	76788X
09803	34346	65635	74400	77369	77098X
017439B	36442	65967	74404	77370	77107X
017985	36846	65969	74405	77546	77236X
017991	38411	65970	74406	77553	77376X
017992	38428	66184	74411	77554	78560X
018073	38429	66185	74805	78022	79485X
019222	38431	66191	74806	79013	79641X
020252	39713	67168	74826	79014	80207X
020252A	39714	67170	74827	79015	81307X
020254	40026	67208	74835	79016	
020255	40652	67549	74868	79017	
020309D	40894	67586	74869	79831	
022684A	41377	67845	74870	79832	
027345	44210	68105	74872	79833	
034217A	44426	68548	74970	79831	
035521	44430	68618	75036	79834	
035521A	45431	69060	75037	80450	
038797	47171	69061	75038	80915	
058149	49092	69744	75039	81000	
063597A	49430	70821	75075		
075174	49950	72103	75078		
096547	50376	72104	75089		
096550	50385	72105	75090		
	50376	72106	75234		
	50750	72107	75238		
10760	51081	72108	76239		
11385	52013	73086	76240		
13905	52018	73087	76241		
15392	58546	73807	76560		



## Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company  
Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.



A handwritten signature in black ink, appearing to read "G. Connor".

Secretary of State

ARTICLES OF AMENDMENT  
TO THE  
ARTICLES OF INCORPORATION  
OF  
INLAND PRODUCTION COMPANY

FILED  
In the Office of the  
Secretary of State of Texas  
SEP 02 2004  
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE – The name of the corporation is Newfield Production Company."

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1<sup>st</sup> day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs  
Susan G. Riggs, Treasurer

**OPERATOR CHANGE WORKSHEET****ROUTING**

1. GLH

2. CDW

3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

**X Operator Name Change****Merger**

The operator of the well(s) listed below has changed, effective:

**9/1/2004****FROM: (Old Operator):**

N5160-Inland Production Company

Route 3 Box 3630

Myton, UT 84052

Phone: 1-(435) 646-3721

**TO: ( New Operator):**

N2695-Newfield Production Company

Route 3 Box 3630

Myton, UT 84052

Phone: 1-(435) 646-3721

**CA No.****Unit:****CANVASBACK (GREEN RIVER)****WELL(S)**

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
BALCRON FED 12-22Y	22	080S	170E	4301331476	12299	Federal	WI	A
BALCRON MON FED 22-22-8-17Y	22	080S	170E	4301331538	12299	Federal	OW	P
BALCRON MON FED 11-22-8-17Y	22	080S	170E	4301331539	12299	Federal	OW	P
MON FED 13-22-8-17Y	22	080S	170E	4301331583	12299	Federal	OW	S
MON FED 32-22-8-17	22	080S	170E	4301331586	12299	Federal	WI	A
MON FED 31-22-8-17	22	080S	170E	4301331587	12299	Federal	OW	P
MON FED 33-22-8-17	22	080S	170E	4301331588	12299	Federal	OW	P
MON FED 23-22-8-17Y	22	080S	170E	4301331702	12299	Federal	WI	A
PARIETTE DRAW 8-22	22	080S	170E	4301331826	12299	Federal	OW	P
CANVASBACK 13A-22-8-17	22	080S	170E	4301332238	12299	Federal	OW	P
CANVASBACK 14-22-8-17	22	080S	170E	4301332239	12299	Federal	OW	P
CANVASBACK 15-22-8-17	22	080S	170E	4301332240	12299	Federal	OW	P
CANVASBACK 16-22-8-17	22	080S	170E	4301332241	12299	Federal	OW	P
FEDERAL 13-23-8-17	23	080S	170E	4301332340	12299	Federal	OW	P
CANVASBACK 12-23-8-17	23	080S	170E	4301332341	12299	Federal	OW	P
CANVASBACK 4-23-8-17	23	080S	170E	4301332342	12299	Federal	OW	P
CANVASBACK 5-23-8-17	23	080S	170E	4301332343	12299	Federal	OW	P
FEDERAL 14-23-8-17	23	080S	170E	4304734556	12299	Federal	OW	P
CANVASBACK 15-23-8-17	23	080S	170E	4304734557	12299	Federal	D	PA
CANVASBACK 3-23-8-17	23	080S	170E	4304734567	12299	Federal	OW	P

K

K

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/15/20042. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/15/20043. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 2/23/20054. Is the new operator registered in the State of Utah: YES Business Number: 755627-01435. If **NO**, the operator was contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: IN PLACE  
6b. Inspections of LA PA state/fee well sites complete on: waived

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: na/

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/23/2005

#### DATA ENTRY:

1. Changes entered in the Oil and Gas Database on: 2/28/2005  
2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 2/28/2005  
3. Bond information entered in RBDMS on: 2/28/2005  
4. Fee/State wells attached to bond in RBDMS on: 2/28/2005  
5. Injection Projects to new operator in RBDMS on: 2/28/2005  
6. Receipt of Acceptance of Drilling Procedures for APD/New on: waived

#### FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UT 0056

#### INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 61BSBDH2912

#### FEE & STATE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 61BSBDH2919  
2. The **FORMER** operator has requested a release of liability from their bond on: n/a\*  
The Division sent response by letter on: n/a

#### LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

#### COMMENTS:

\*Bond rider changed operator name from Inland Production Company to Newfield Production Company - received 2/23/05



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTU77233

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current casing depth, reenter plugged wells, to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
CANVASBACK UNIT

1. TYPE OF WELL:

OIL WELL ☒ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER:

CANVASBACK 13A-22-8-17

2. NAME OF OPERATOR:

Newfield Production Company

9. API NUMBER:

4301332238

3. ADDRESS OF OPERATOR:

Route 3 Box 3630

CITY Myton

STATE UT

PHONE NUMBER

435.646.3721

10. FIELD AND POOL, OR WILDCAT:

Monument Butte

4. LOCATION OF WELL:

FOOTAGES AT SURFACE: 322 FWL 565 FSL

COUNTY: Duchesne

OTR/OTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SW/SW, 22, T8S, R17E

STATE: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	SubDate	TYPE OF ACTION
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> COMPLETION <input type="checkbox"/> CEMENT TREAT <input type="checkbox"/> CONSTRUCTION <input type="checkbox"/> CORRECTION <input type="checkbox"/> CURED ABANDON <input type="checkbox"/> CURE <input type="checkbox"/> CLOSURE (START/STOP) <input type="checkbox"/> LOCATION OF WELL SITE <input type="checkbox"/> COMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input type="checkbox"/> OTHER: -
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  05/05/2015			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The subject well was converted from a producing to an injection well on 4/1/05. The rods and tubing anchor were removed and a packer was inserted in bottom hole assembly 4529'.

On 4/06/04 Mr. Dan Jackson w/EPA was notified of the intent to conduct a MIT on the casing. On 4/11/05 the casing was pressured to 1660 psi w/no pressure loss charted in the 1/2 hour test. No governmental agencies were able to witness the test.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

NAME (PLEASE PRINT) Krishna Russell

TITLE Production Clerk

SIGNATURE

*Krishna Russell*

DATE 05/05/2005

(This space for State use only)

RECEIVED

MAY 09 2005

DIV. OF OIL, GAS & MINING

**Mechanical Integrity Test**  
**Casing or Annulus Pressure Mechanical Integrity Test**

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 04/11/05  
Test conducted by: Dale Giles  
Others present: \_\_\_\_\_

Well Name: <u>Canvasback 13A-22-8-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Canvasback unit</u>		
Location: _____ Sec: <u>22</u> T <u>8</u> N <u>18</u> R <u>17</u> E W County: <u>Duchesne</u> State: <u>UT</u>		
Operator: _____		
Last MIT: _____ / _____ / _____ Maximum Allowable Pressure: _____ PSIG		

Is this a regularly scheduled test? ☐ Yes ☐ No  
Initial test for permit? ☒ Yes ☐ No  
Test after well rework? ☐ Yes ☐ No  
Well injecting during test? ☐ Yes ☐ No If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: 0 psig

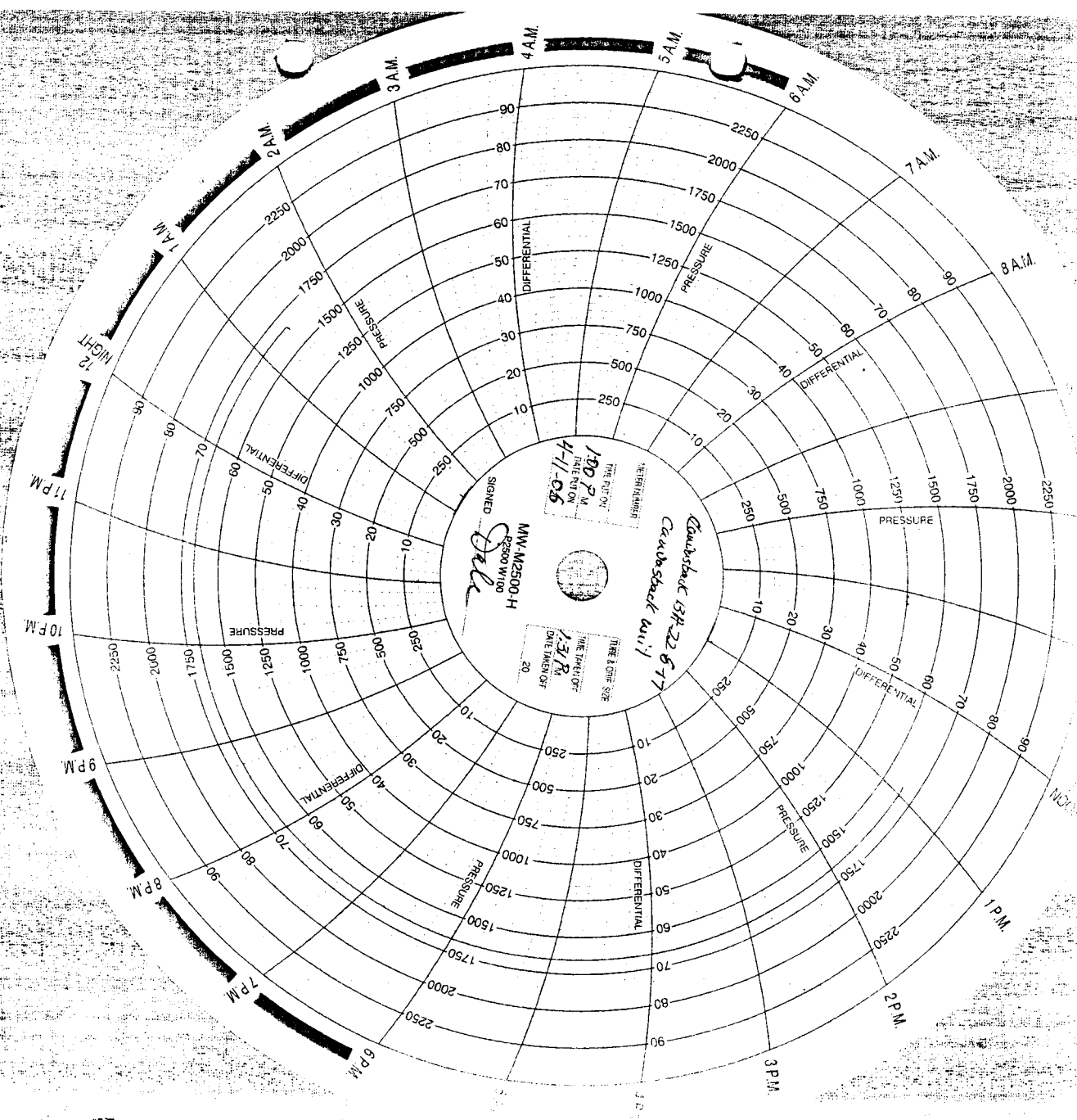
MIT DATA TABLE		Test #1	Test #2	Test #3
<b>TUBING</b>		<b>PRESSURE</b>		
Initial Pressure		<u>400</u> psig	psig	psig
End of test pressure		<u>400</u> psig	psig	psig
<b>CASING / TUBING</b>		<b>ANNULUS PRESSURE</b>		
0 minutes		<u>1660</u> psig	psig	psig
5 minutes		<u>1660</u> psig	psig	psig
10 minutes		<u>1660</u> psig	psig	psig
15 minutes		<u>1660</u> psig	psig	psig
20 minutes		<u>1660</u> psig	psig	psig
25 minutes		<u>1660</u> psig	psig	psig
30 minutes		<u>1660</u> psig	psig	psig
_____ minutes		psig	psig	psig
_____ minutes		psig	psig	psig
<b>RESULT</b>		<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

**MECHANICAL INTEGRITY PRESSURE TEST**

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an**  
**abandoned well. Use Form 3160-3 (APD) for such proposals.**

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other Injection well

2. Name of Operator

Newfield Production Company

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone No. (include are code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

322 FWL 565 FSL

SW/SW Section 22 T8S R17E

5. Lease Serial No.

UTU77233

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.

CANVASBACK UNIT

8. Well Name and No.

CANVASBACK 13A-22-8-17

9. API Well No.

4301332238

10. Field and Pool, or Exploratory Area  
Monument Butte

11. County or Parish, State

Duchesne, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Change Status, Put Well
	<input checked="" type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	on Injection

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The above referenced well was put on injection at 3:00 p.m. on 6/24/05.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

I hereby certify that the foregoing is true and correct

Name (Printed/ Typed)  
Mandie Crozier

Title

Regulatory Specialist

Signature

Date

06/27/2005

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

**RECEIVED**

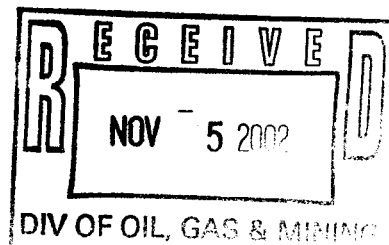
**JUN 29 2005**

DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Inland Production Company  
ADDRESS 410 17th Street, Suite 700  
Denver, Colorado 80202



Well Name and number: Canvasback 13A-22-8-17  
Field or Unit name: Monument Butte (Green River) Canvasback Unit Lease No. UTU-77233  
Well Location: QQ SW/SW section 22 township 8S range 17E county Duchesne

Is this application for expansion of an existing project? ..... Yes ☒ No ☐

Will the proposed well be used for: Enhanced Recovery? ..... Yes ☒ No ☐  
Disposal? ..... Yes ☐ No ☒  
Storage? ..... Yes ☐ No ☒

Is this application for a new well to be drilled? ..... Yes ☐ No ☒

If this application is for an existing well,  
has a casing test been performed on the well? ..... Yes ☒ No ☐

Date of test: \_\_\_\_\_

API number: 43-013-32238

Proposed injection interval: from 4457 to 6300  
Proposed maximum injection: rate 500 bpd pressure 1674 psig  
Proposed injection zone contains [x] oil, [ ] gas, and/or [ ] fresh water within 1/2  
mile of the well.

IMPORTANT: Additional information as required by R615-5-2 should  
accompany this form.

List of Attachments: Attachments "A" through "R"

I certify that this report is true and complete to the best of my knowledge.

Name: David Gerbig Signature: David Gerbig  
Title: Operations Engineer Date: 11-1-02  
Phone No. (303) 893-0102

(State use only)

Application approved by \_\_\_\_\_ Title \_\_\_\_\_

Approval Date \_\_\_\_\_

Comments:

UIC-300.5



October 25, 2002

Mr. Dan Jarvis  
State of Utah  
Division of Oil, Gas and Mining  
Post Office Box 145801  
Salt Lake City, Utah 84114-5801

RE: Permit Application for Water Injection Well  
Canvasback #13A-22-8-17  
Monument Butte Field, Canvasback Unit, Lease #UTU-77233  
Section 22-Township 8S-Range 17E  
Duchesne County, Utah

Dear Mr. Jarvis:

Inland Production Company herein requests approval to convert the Canvasback #13A-22-8-17 from a producing oil well to a water injection well in the Monument Butte (Green River) Field, Canvasback Unit.

We also request permission to add additional perforations between the Garden Gulch and Basal Limestone formations at that time. All work will be detailed in a Sundry Notice.

I hope you find this application complete; however, if you have any questions or require additional information, please contact me at (303) 893-0102.

Sincerely,



David Gerbig  
Operations Engineer

RECEIVED

2002

**INLAND PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**CANVASBACK #13A-22-8-17**  
**MONUMENT BUTTE FIELD (GREEN RIVER) FIELD**  
**CANVASBACK UNIT**  
**LEASE #UTU-77233**  
**OCTOBER 25, 2002**



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# Canvasback #13A-22-8-17

Spud Date: 4/16/02  
Put on Production: 7/03/02  
GL: 5161' KB: 5171'

Initial Production: 83 BOPD,  
90 MCFD, 6 BWPD

## SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (292.65')  
DEPTH LANDED: 300.65'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 150 sxs Class "G" cmt, est 6 bbls cmt to surf.

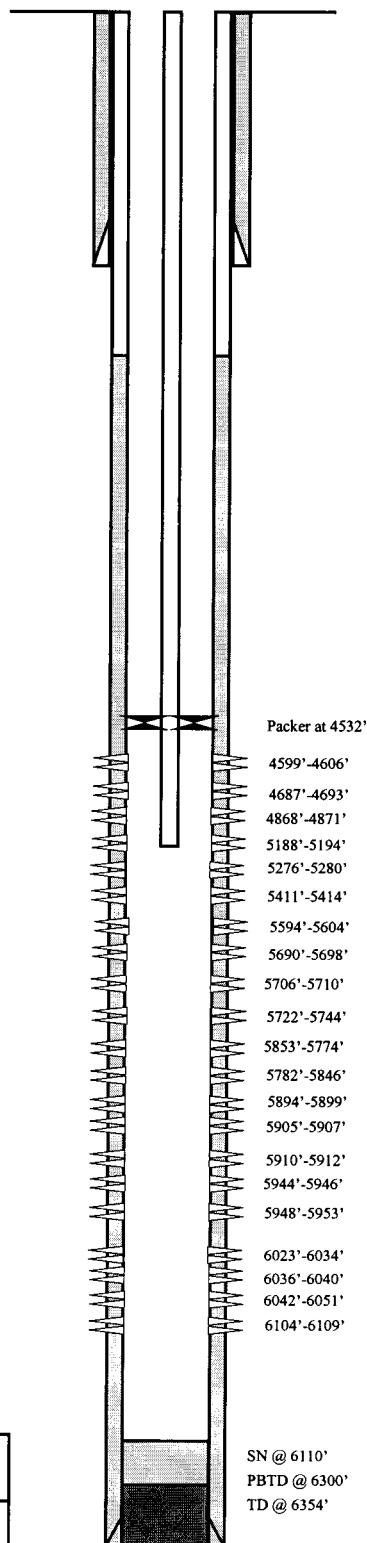
## PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 142 jts. (6324.34')  
DEPTH LANDED: 6321.94'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 550 sxs 50/50 POZ.  
CEMENT TOP AT: 650' per CBL

## TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 186 jts (6000.95')  
TUBING ANCHOR: 6010.95'  
NO. OF JOINTS: 3 jts (96.94')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 6110.69' KB  
NO. OF JOINTS: 2 jts (64.66')  
TOTAL STRING LENGTH: EOT @ 6167.90'

## Proposed Injection Wellbore Diagram



## FRAC JOB

6/27/02	6023'-6109'	<b>Frac CP sand as follows:</b> 102,280# 20/40 sand in 751 bbls Viking I-25 fluid. Treated @ avg press of 1625 psi w/avg rate of 25.5 BPM. ISIP 2150 psi. Calc flush: 6023 gal. Actual flush: 5964 gal.
6/27/02	5782'-5953'	<b>Frac BS sand as follows:</b> 151,000# 20/40 sand in 1013 bbls Viking I-25 fluid. Treated @ avg press of 2550 psi w/avg rate of 24.7 BPM. ISIP 3300 psi. Calc flush: 5782 gal. Actual flush: 5953 gal.
6/27/02	5594'-5774'	<b>Frac LODC sand as follows:</b> 204,340# 20/40 sand in 1316 bbls Viking I-25 fluid. Treated @ avg press of 1600 psi w/avg rate of 26 BPM. ISIP 1990 psi. Calc flush: 5594 gal. Actual flush: 5502 gal.
6/27/02	5411'-5414'	<b>Frac B.5 sand as follows:</b> 20,626# 20/40 sand in 269 bbls Viking I-25 fluid. Treated @ avg press of 2490 psi w/avg rate of 26 BPM. ISIP 1975 psi. Calc flush: 5411 gal. Actual flush: 5334 gal.
6/27/02	5188'-5280'	<b>Frac D1, D3 sands as follows:</b> 40,436# 20/40 sand in 390 bbls Viking I-25 fluid. Treated @ avg press of 1630 psi w/avg rate of 26.1 BPM. ISIP 1700 psi. Calc flush: 5188 gal. Actual flush: 5082 gal.
6/28/02	4599'-4693'	<b>Frac GB4, GB6 sands as follows:</b> 64,340# 20/40 sand in 403 bbls Viking I-25 fluid. Treated @ avg press of 1890 psi w/avg rate of 26 BPM. ISIP 1940 psi. Calc flush: 4599 gal. Actual flush: 4536 gal.

## PERFORATION RECORD

7/27/02	6104'-6109'	4 JSPF	20 holes
7/27/02	6042'-6051'	4 JSPF	36 holes
7/27/02	6036'-6040'	4 JSPF	16 holes
7/27/02	6023'-6034'	4 JSPF	44 holes
7/27/02	5948'-5953'	4 JSPF	20 holes
7/27/02	5944'-5946'	4 JSPF	08 holes
7/27/02	5910'-5912'	4 JSPF	08 holes
7/27/02	5905'-5907'	4 JSPF	08 holes
7/27/02	5894'-5899'	4 JSPF	20 holes
7/27/02	5782'-5846'	4 JSPF	256 holes
7/27/02	5853'-5774'	4 JSPF	84 holes
7/27/02	5722'-5744'	4 JSPF	88 holes
7/27/02	5706'-5710'	4 JSPF	16 holes
7/27/02	5690'-5698'	4 JSPF	32 holes
7/27/02	5594'-5604'	4 JSPF	40 holes
7/27/02	5411'-5414'	4 JSPF	12 holes
7/27/02	5276'-5280'	4 JSPF	16 holes
7/27/02	5188'-5194'	4 JSPF	24 holes
7/28/02	4868'-4871'	4 JSPF	12 holes
7/28/02	4687'-4693'	4 JSPF	24 holes
7/28/02	4599'-4606'	4 JSPF	28 holes



**Inland Resources Inc.**

**Canvasback #13A-22-8-17**

565' FSL & 822' FWL

SWSW Section 22-T8S-R17E

Duchesne Co, Utah

API #43-013-32238; Lease #UTU-77233

SN @ 6110'  
PBTB @ 6300'  
TD @ 6354'

JM 8/14/02

## **WORK PROCEDURE FOR INJECTION CONVERSION**

1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.
2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.
3. Test casing and packer.
4. Rig down and move out.

**REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS  
RULE R615-5-1**

- 1. Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.**
- 2. A request for agency action for authority for the injection of gas, liquified petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:**

- 2.1 The name and address of the operator of the project.**

Inland Production Company  
410 17<sup>th</sup> Street, Suite 700  
Denver, Colorado 80202

- 2.2 A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.**

See Attachment A.

- 2.3 A full description of the particular operation for approval is requested.**

Approval is requested to convert the Canvasback #13A-22-8-17 from a producing oil well to a water injection well in Monument Butte (Green River) Field, Canvasback Unit.

- 2.4 A description of the pools from which the identified wells are producing or have produced.**

The proposed injection well will inject into the Green River Formation.

- 2.5 The names, description and depth of the pool or pools to be affected.**

The injection zone is in the Green River Formation. In the Canvasback #13A-22-8-17 well, the proposed injection zone is from Garden Gulch to Basal Limestone (4457' - 6300'). We may add additional perfs to those already existing; any additional perfs will be detailed in a Sundry Notice at that time. The confining strata directly above and below the injection zones are the Garden Gulch and Castle Peak Members of the Green River Formation, with the Garden Gulch Marker top at 4457' and the Castle Peak top at 5986'.

- 2.6 A copy of a log of a representative well completed in the pool.**

The referenced log for the Canvasback #13A-22-8-17 is on file with the Utah Division of Oil, Gas and Mining.

- 2.7 A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water from the Johnson Water District supply line. The secondary type of fluid to be used for injection will be culinary water from the Johnson Water District commingled with produced water. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

- 2.8 A list of all operators and surface owners within one-half mile radius of the proposed project.**

See Attachment B.

- 2.9 An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.**

See Attachment C.

- 2.10 Any additional information the Board may determine is necessary to adequately review the petition.**

Inland Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

- 4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.**

This proposed injection well is on a Federal lease (Lease #UTU-77233 ) in the Monument Butte (Green River) Field, Canvasback Unit, and this request is for administrative approval.

**REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL,  
STORAGE AND ENHANCED RECOVERY WELLS  
SECTION V – RULE R615-5-2**

- 1. Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.**
- 2. The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:**

- 2.1 A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.**

See Attachments A and B.

- 2.2 Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.**

All logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.3 A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.**

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.

- 2.4 Copies of logs already on file with the Division should be referenced, but need not be refiled.**

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.5 A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.**

The casing program is 8-5/8", 24#, J-55 surface casing run to 301' GL, and 5-1/2" 15.5# J-55 casing run from surface to 6322' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.

- 2.6 A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water from the Johnson Water District supply line. The secondary type of fluid to be used for injection will be culinary water from the Johnson Water District commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.

- 2.7 Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.**

See Attachment F.

**The proposed average and maximum injection pressures.**

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 1674 psig.

- 2.8 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.**

The minimum fracture gradient for the Canvasback #13A-22-8-17, for existing perforations (4599' - 6109') calculates at 0.76 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1674 psig. At the time of conversion, we may add additional perforations between 4457' and 6300', and will detail the work performed in a Sundry Notice. See Attachments G and G-1.

- 2.9 Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent.**

In the Canvasback #13A-22-8-17, the proposed injection zone (4457' - 6300') is in the Garden Gulch to Basal limestone members of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Field. Outside the Monument Butte Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

- 2.10 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.**

See Attachments E through E-13.

Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

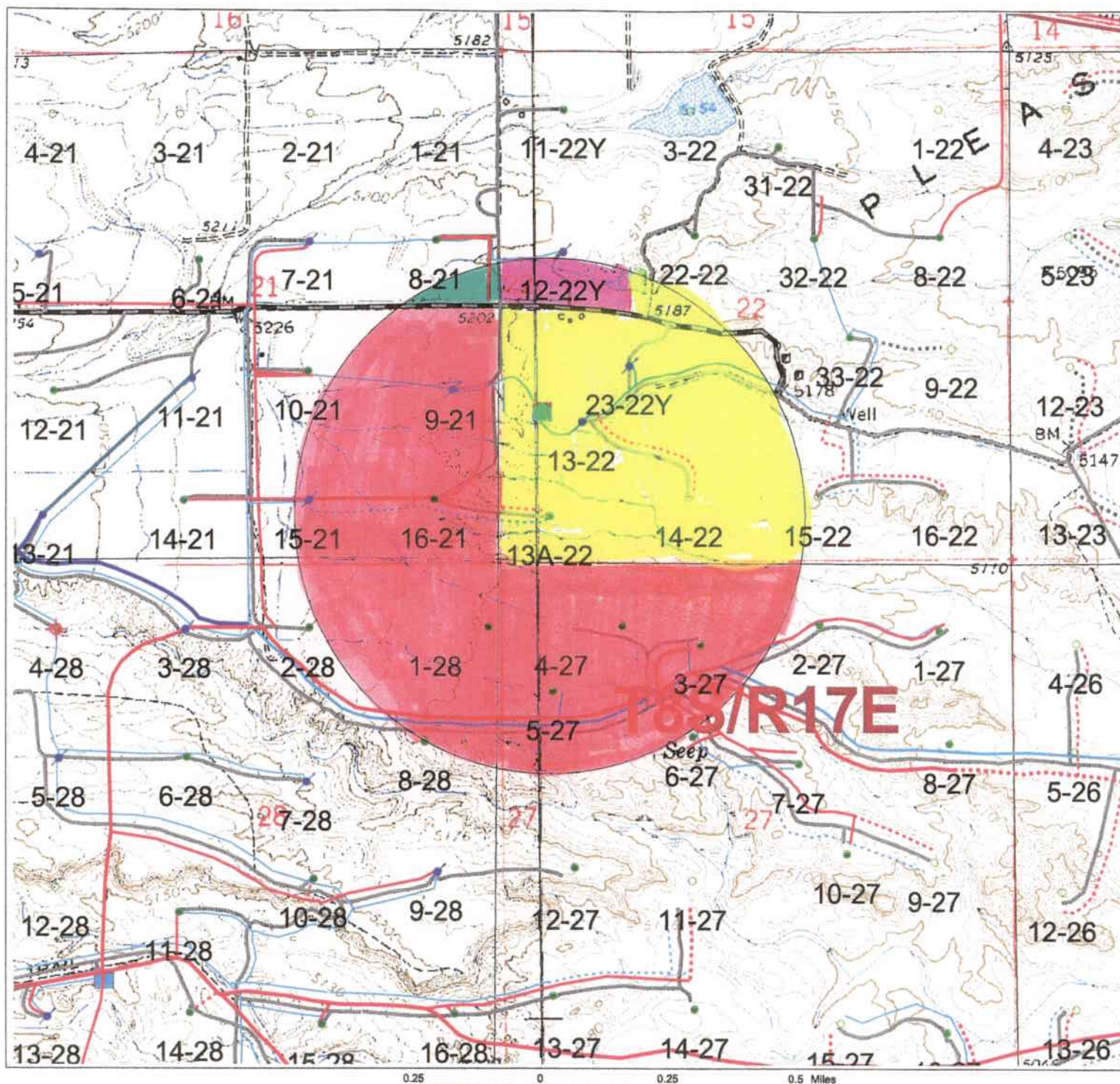
- 2.11 An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.**

See Attachment C.

- 2.12 Any other information that the Board or Division may determine is necessary to adequately review the application.**

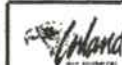
Inland Production Company will supply any requested information to the Board or Division.





- 1/2 mile radius
- Water Taps
- Well Categories
- IAJ
  - WTR
  - SND
  - OSL
  - GAS
  - DAY
  - SHUTIN
  - SUSPENDED
  - ABND
  - LOC
- Compressor Stations
- Gas Pipelines
- 10"
  - 6" proposed
  - 4" proposed
  - Gas Surfed
  - Petroglyph Gasline
  - Quasar Gasline
- Gas Meters
- Water 6 Inch
  - Water 4 Inch
  - Water 4 Inch - High Pressure
  - Water 4 Inch Poly
  - Water 2 to 3 Inch
  - Proposed Water
  - Johnson Water Line
- Injection Stations
- Pump Stations
  - Roads (Digitized)
  - Paved
  - Dirt
  - Proposed
  - Two Track
  - Private
  - Mining Tracts
- UTU-77233
- UTU-66191
- UTU-76241
- 7EE
- L. CLARK ROBERTS

Federal 13A-22-8-17  
Sec. 22-T8S-R17E



410 17<sup>th</sup> Street Suite 300  
Denver, Colorado 80202  
Phone: (303) 593 8102

1/2 Mile Radius Map

SANTA BASIN, UTAH  
Duchesne & Uintah Counties, Utah

0.12.17.95

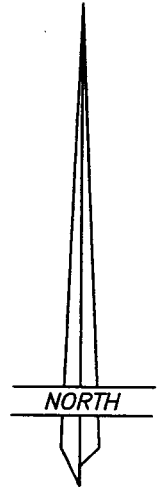
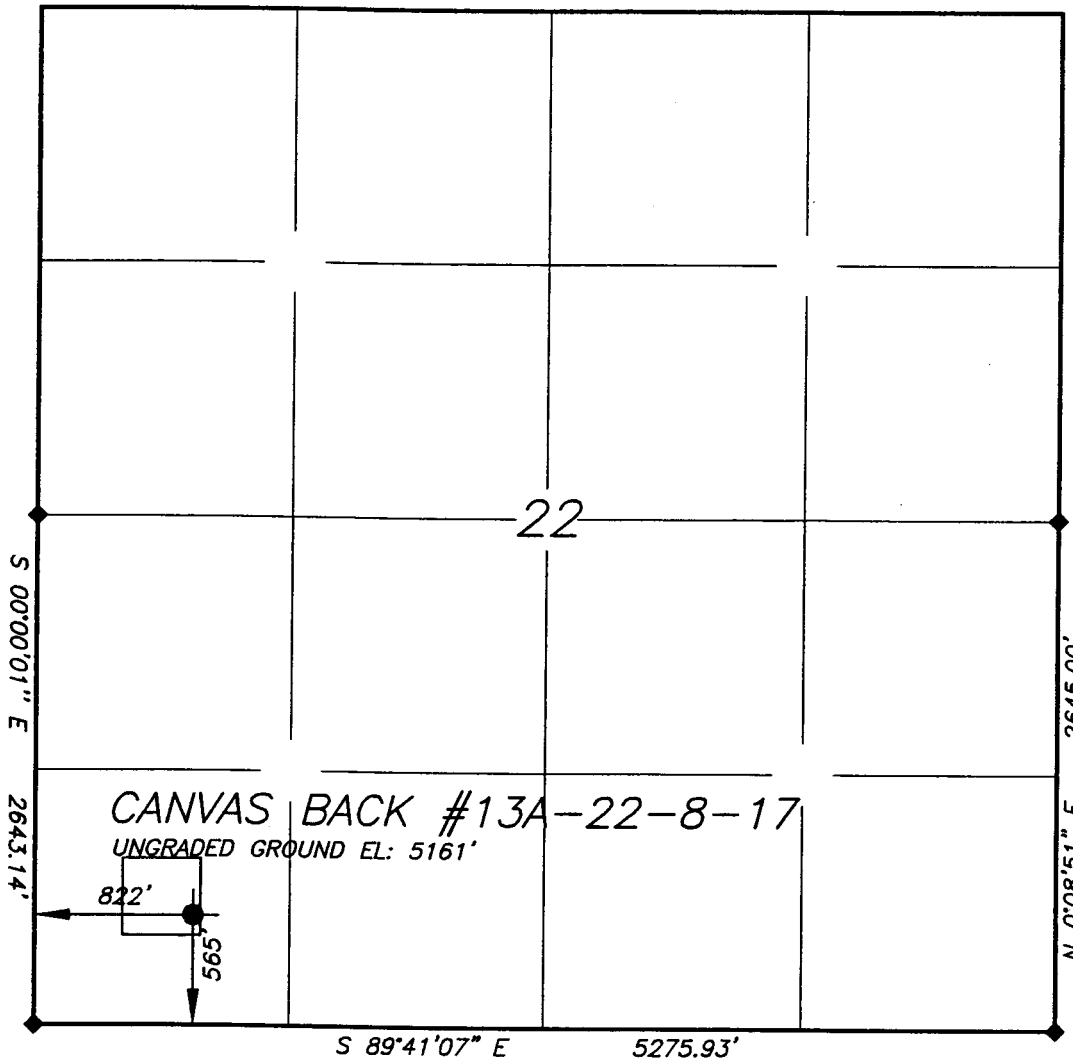


# INLAND PRODUCTION COMPANY

## WELL LOCATION PLAT

CANVAS BACK #13A-22-8-17

LOCATED IN THE SW1/4 OF THE SW1/4 OF  
SECTION 22, T8S, R17E, S.L.B.&M.



SCALE: 1" = 1000'



### LEGEND AND NOTES

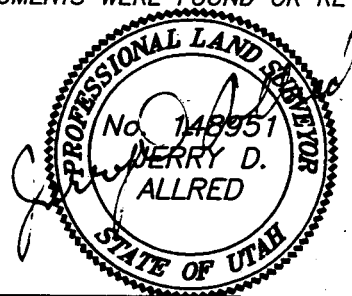
- ◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY.

THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS, AS WAS THE U.S.G.S. MAP.

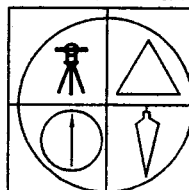
THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT. THE BEARINGS ARE BASED ON WGS84 DATUM.

### SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY PERFORMED BY ME, DURING WHICH THE SHOWN MONUMENTS WERE FOUND OR RE-ESTABLISHED.



JERRY D. ALLRED, PROFESSIONAL LAND SURVEYOR,  
CERTIFICATE NO. 148951, STATE OF UTAH



JERRY D. ALLRED & ASSOCIATES  
SURVEYING CONSULTANTS

121 NORTH CENTER ST.--P.O. BOX 975  
DUCESNE, UTAH 84021  
(435) 738-5357

12 MAR 2001

84-121-079

# EXHIBIT B

Page 1

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
1	<u>Township 8 South, Range 17 East</u> Section 14: All Section 15: All Section 22: W/2NW/4	UTU-66191 HBP	Inland Production Company Yates Petroleum Corporation ABO Petroleum Corporation Yates Drilling Company Myco Industries, Inc.	(Surface Rights) USA
2	<u>Township 8 South, Range 17 East</u> Section 22: NE/4, E/2NW/4, S/2	UTU-77233 HBP	Inland Production Company	(Surface Rights) USA Brad Nelson, et ux Ethan Lee Nelson, et ux
3	<u>Township 8 South, Range 17 East</u> Section 21: N/2NE/4, SW/4NE/4	L. Clark Roberts HBP	Inland Production Company	(Surface Rights) John Price, et ux

## EXHIBIT B

Page 2

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
4	<u>Township 8 South Range 17 East</u> Section 26: S2SW, SWSE Section 27: All Section 28: All Section 33: N2NE Section 34: N/2, N2SE	UTU-76241 HBP	Inland Production Company Smith Energy Partnership	(Surface Rights) Joe Shields

ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well  
Canvasback #13A-22-8-17

I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed: David Gerbig  
Inland Production Company  
David Gerbig  
Operations Engineer

Sworn to and subscribed before me this 1 day of November, 2002.

Notary Public in and for the State of Colorado: Shack Sahr

My Commission Expires: 8/29/05

## Canvasback #13A-22-8-17

Spud Date: 4/16/02  
Put on Production: 7/03/02  
GL: 5161' KB: 5171'

Initial Production: 83 BOPD,  
90 MCFD, 6 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (292.65')  
DEPTH LANDED: 300.65'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 150 sxs Class "G" cmt, est 6 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 142 jts. (6324.34')  
DEPTH LANDED: 6321.94'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 550 sxs 50/50 POZ.  
CEMENT TOP AT: 650' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 186 jts (6000.95')  
TUBING ANCHOR: 6010.95'  
NO. OF JOINTS: 3 jts (96.94')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 6110.69' KB  
NO. OF JOINTS: 2 jts (64.66')  
TOTAL STRING LENGTH: EOT @ 6167.90'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 6- 1 1/2" weight bars; 10-3/4" scraper rods; 127-3/4" slick rods, 99-3/4" scraper rods, 1-2', 1-4', 1-6', 1-8' x 3/4" pony rods.  
PUMP SIZE: 2-1/2" x 1-1/2" x 16" RHAC  
STROKE LENGTH: 74"  
PUMP SPEED, SPM: 3.5 SPM  
LOGS: DIGL/SP/GR/CAL

FRAC JOB

6/27/02 6023'-6109' **Frac CP sand as follows:**  
102,280# 20/40 sand in 751 bbls Viking I-25 fluid. Treated @ avg press of 1625 psi w/avg rate of 25.5 BPM. ISIP 2150 psi. Calc flush: 6023 gal. Actual flush: 5964 gal.

6/27/02 5782'-5953' **Frac BS sand as follows:**  
151,000# 20/40 sand in 1013 bbls Viking I-25 fluid. Treated @ avg press of 2550 psi w/avg rate of 24.7 BPM. ISIP 3300 psi. Calc flush: 5782 gal. Actual flush: 5953 gal.

6/27/02 5594'-5774' **Frac LODC sand as follows:**  
204,340# 20/40 sand in 1316 bbls Viking I-25 fluid. Treated @ avg press of 1600 psi w/avg rate of 26 BPM. ISIP 1990 psi. Calc flush: 5594 gal. Actual flush: 5502 gal.

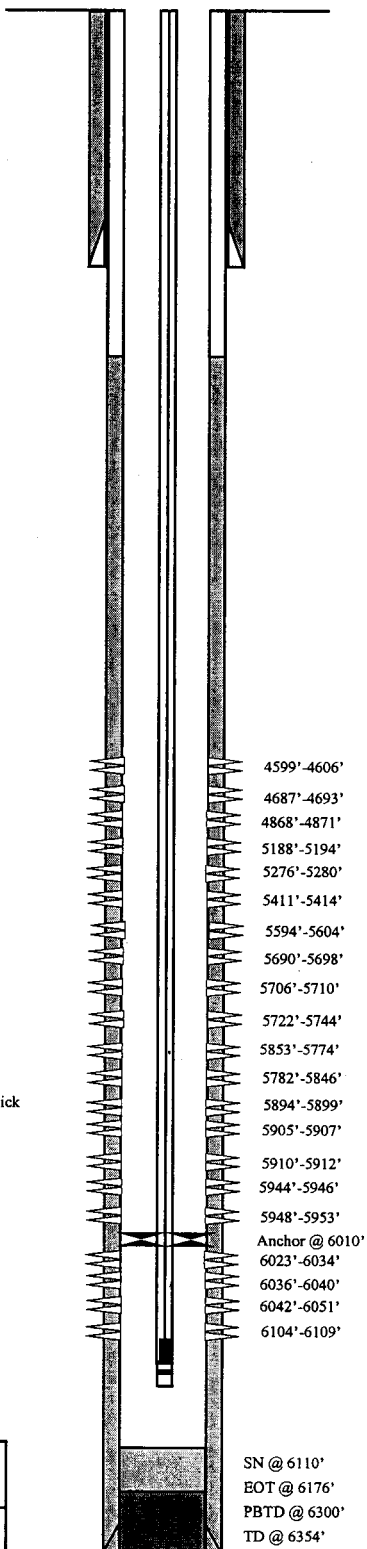
6/27/02 5411'-5414' **Frac B.5 sand as follows:**  
20,626# 20/40 sand in 269 bbls Viking I-25 fluid. Treated @ avg press of 2490 psi w/avg rate of 26 BPM. ISIP 1975 psi. Calc flush: 5411 gal. Actual flush: 5334 gal.

6/27/02 5188'-5280' **Frac D1, D3 sands as follows:**  
40,436# 20/40 sand in 390 bbls Viking I-25 fluid. Treated @ avg press of 1630 psi w/avg rate of 26.1 BPM. ISIP 1700 psi. Calc flush: 5188 gal. Actual flush: 5082 gal.

6/28/02 4599'-4693' **Frac GB4, GB6 sands as follows:**  
64,340# 20/40 sand in 403 bbls Viking I-25 fluid. Treated @ avg press of 1890 psi w/avg rate of 26 BPM. ISIP 1940 psi. Calc flush: 4599 gal. Actual flush: 4536 gal.

PERFORATION RECORD

Date	Interval	Tool	Holes
7/27/02	6104'-6109'	4 JSPF	20 holes
7/27/02	6042'-6051'	4 JSPF	36 holes
7/27/02	6036'-6040'	4 JSPF	16 holes
7/27/02	6023'-6034'	4 JSPF	44 holes
7/27/02	5948'-5953'	4 JSPF	20 holes
7/27/02	5944'-5946'	4 JSPF	08 holes
7/27/02	5910'-5912'	4 JSPF	08 holes
7/27/02	5905'-5907'	4 JSPF	08 holes
7/27/02	5894'-5899'	4 JSPF	20 holes
7/27/02	5782'-5846'	4 JSPF	256 holes
7/27/02	5853'-5774'	4 JSPF	84 holes
7/27/02	5722'-5744'	4 JSPF	88 holes
7/27/02	5706'-5710'	4 JSPF	16 holes
7/27/02	5690'-5698'	4 JSPF	32 holes
7/27/02	5594'-5604'	4 JSPF	40 holes
7/27/02	5411'-5414'	4 JSPF	12 holes
7/27/02	5276'-5280'	4 JSPF	16 holes
7/27/02	5188'-5194'	4 JSPF	24 holes
7/28/02	4868'-4871'	4 JSPF	12 holes
7/28/02	4687'-4693'	4 JSPF	24 holes
7/28/02	4599'-4606'	4 JSPF	28 holes



Inland Resources Inc.

Canvasback #13A-22-8-17

565' FSL &amp; 822' FWL

SWSW Section 22-T8S-R17E

Duchesne Co, Utah

API #43-013-32238; Lease #UTU-77233

JM 8/14/02

Attachment E-1

Spud Date: 12/18/94  
Put on Production: 1/26/95  
Put on Injection: 12/07/2000  
GL: 5197' KB: 5207'

# Balcron Fed. #12-22Y-8-17

Initial Production: 17 BOPD,  
NM MCFD, 0 BWPD

Injection Wellbore  
Diagram

## SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 8 jts. (394.88')  
DEPTH LANDED: 404.88' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 250 sxs Class "G" cmt, est 15 bbls cmt to surface.

## PRODUCTION CASING

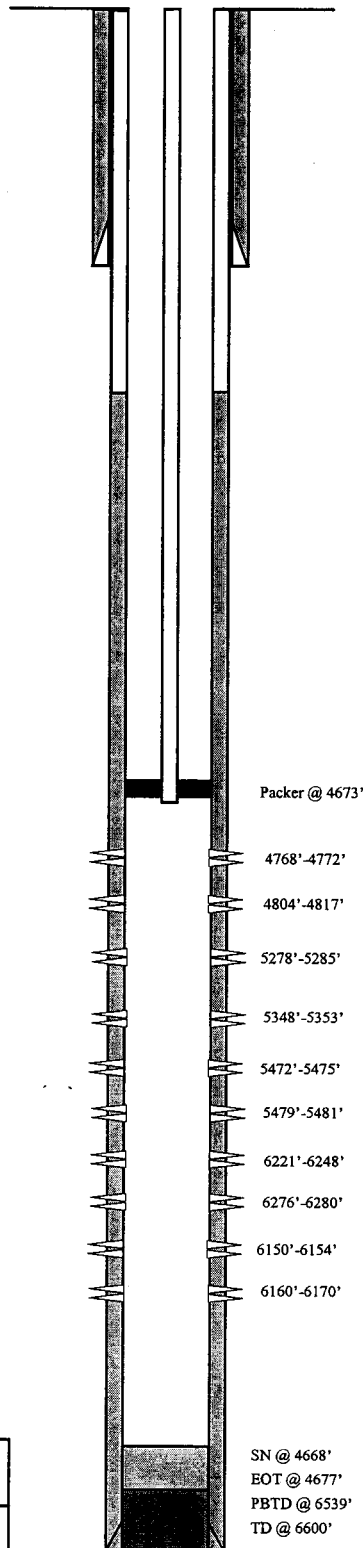
CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 156 jts. (6575.52')  
DEPTH LANDED: 6584.52' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 130 sxs Super "G" & 480 sxs 50/50 POZ.  
CEMENT TOP AT: 2983' per CBL

## TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 151 jts (4658.94')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 4668.94' KB  
PACKER: 4673.24' KB  
TOTAL STRING LENGTH: EOT @ 4677.36' KB

## FRAC JOB

1/15/95	6221'-6248'	<b>Frac CP sand as follows:</b> 80,040# 20/40 sand + 87,580# 16/30 sand in 1252 bbls Viking I-35 fluid. Treated @ avg press of 1900 psi w/avg rate of 32 BPM. ISIP 2000 psi. Calc. flush: 6221 gal. Actual flush: 6216 gal.
4/26/95	5348'-5481'	<b>Frac zone sand as follows:</b> 26,920# 20/40 sand + 38,000# 16/30 sand in 473 bbls Viking I-35 fluid. Treated @ avg press of 2200 psi w/avg rate of 33 BPM. ISIP 1680 psi. Calc. flush: 5348 gal. Actual flush: 5334 gal.
5/01/95	4804'-4817'	<b>Frac zone sand as follows:</b> 80,400# 16/30 sand in 559 bbls Viking I-35 fluid. Treated @ avg press of 1800 psi w/avg rate of 30 BPM. ISIP 1900 psi. Calc. flush: 4804 gal. Actual flush: 4704 gal.
11/09/00		Break CP3 w/ 35 bbl water.
11/09/00		Break CP1 w/ 2 bbl water. Rate: 2 BPM @ 1300 psi.
11/09/00		Try to break D1 w/ 4 bbl water. Rate: 1/8 BPM @ 4500 psi. Wouldn't break.
11/09/00		Break GB4 w/ 2 bbl water. Rate: 2 BPM @ 1500 psi.
11/10/00		Pump 10 bw + 6 bbl acid + 22 bw into GB4 & D1 zones. Rate: 1/5 - 1/4 BPM.
12/07/00		Put on injection.



## PERFORATION RECORD

1/17/95	6221'-6248'	2 JSPF	54 holes
4/26/95	5479'-5481'	1 JSPF	03 holes
4/26/95	5472'-5475'	1 JSPF	04 holes
4/26/95	5348'-5353'	1 JSPF	07 holes
4/28/95	4804'-4817'	4 JSPF	52 holes
11/09/00	6276'-6280'	4 JSPF	16 holes
11/09/00	6160'-6170'	4 JSPF	40 holes
11/09/00	6150'-6154'	4 JSPF	16 holes
11/09/00	5278'-5285'	4 JSPF	28 holes
11/09/00	4768'-4772'	4 JSPF	16 holes



Inland Resources Inc.

Balcron Fed. #12-22y-8-17

2105' FNL & 660' FWL

SWNW Section 22-T8S-R17E

Duchesne Co, Utah

API #43-013-31476; Lease #U-66191

Spud Date: 11/06/96  
 Put on Production: 12/17/96  
 Put on Injection: 10/17/00  
 GL: 5180' KB: 5190'

# Monument Fed. #23-22-8-17

Initial Production: 26 BOPD,  
 NM MCFD, 8 BWPD

## SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 269'  
 DEPTH LANDED: 279' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: No data reported.

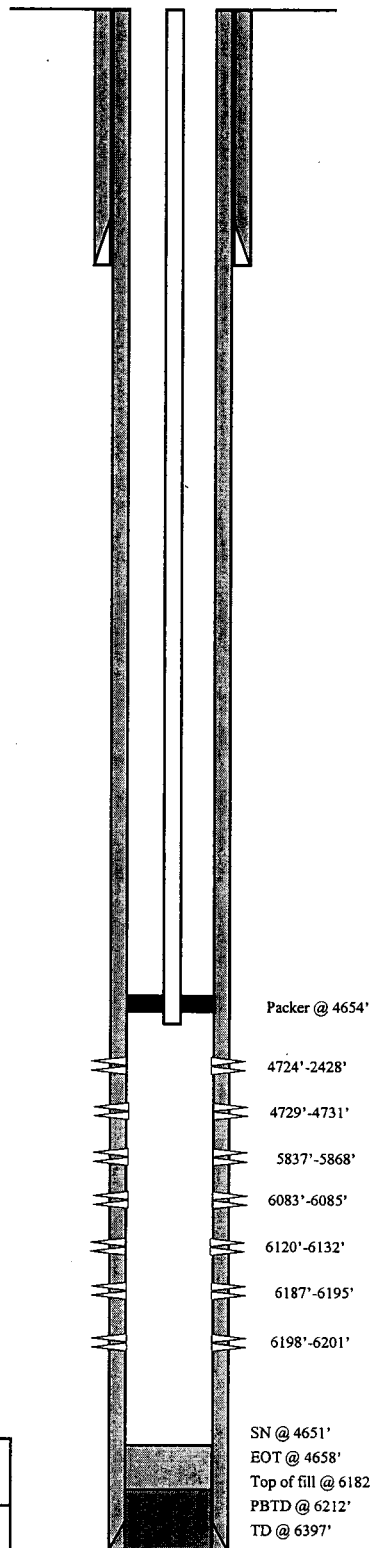
## PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 149 jts. (6261')  
 DEPTH LANDED: 6271' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 370 sxs Super "G" & 435 sxs 50/50 POZ.  
 CEMENT TOP AT: 925' per CBL

## TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 149 jts (4650.06')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4651.16' KB  
 ARROW SET PACKER: 4654.36' KB  
 TOTAL STRING LENGTH: EOT @ 4658.47'

Injection Wellbore  
 Diagram



## FRAC JOB

11/25/96	5837'-5868'	<b>Frac LODC sand as follows:</b> 29,440# 20/40 sand + 50,660# 16/30 sand in 557 bbl 2% KCl. Treated @ avg press of 2740 psi w/avg rate of 33.8 BPM. ISIP 3250 psi.
11/25/96	4724'-4731'	<b>Frac GB4 sand as follows:</b> 24,000# 16/30 sand in 259 bbl 2% KCl. Treated @ avg press of 1700 psi w/avg rate of 25.1 BPM. ISIP 1660 psi.
4/29/98	6083'-6201'	<b>Frac CP sands as follows:</b> 66,100# 20/40 sand in 324 bbl frac fluid. Treated @ avg press of 6400 psi w/avg rate of 25 BPM. Screened out w/ 56,300# sand in formation, 9800# in tubing.
5/02/98	5837'-5868'	<b>Re-Frac LODC sands as follows:</b> 71,300# 20/40 sand in 358 bbl frac fluid. Treated @ avg press of 6900 psi w/avg rate of 23 BPM. Screened out w/ 71,300# sand in formation, 12,000# in tubing.

## PERFORATION RECORD

11/22/96	5837'-5868'	2 JSPF	62 holes
11/25/96	4729'-4731'	4 JSPF	08 holes
11/25/96	4724'-2428'	4 JSPF	16 holes
04/28/98	6198'-6201'	4 JSPF	12 holes
04/28/98	6187'-6195'	4 JSPF	32 holes
04/28/98	6120'-6132'	4 JSPF	32 holes
04/28/98	6083'-6085'	4 JSPF	08 holes



Inland Resources Inc.

Monument Fed. #23-22-8-17

2019' FSL & 1356' FWL

NWSW Section 22-T8S-R17E

Duchesne Co, Utah

API #43-013-31702; Lease #U-77233

Spud Date: 5-12-96  
 First Prod: 6-19-96  
 GL: 5190' KB: 5200'

# Monument Federal #13-22-8-17Y

Initial Production: 39 BOPD,  
 0 BWPD, 0 MCFPD

Wellbore Diagram

## SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 6 jts. (248')  
 DEPTH LANDED: 259.16  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs class "G", 2% CaCl<sub>2</sub>, 1/4 #/sk Cello-Seal  
 w/ 10 bbls est to surface

## PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 149 jts. (6337.08')  
 DEPTH LANDED: 6347.08'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 325 sxs Super "G" and 390 sxs 50/50 Poz  
 CEMENT TOP AT:

## TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 153 jts  
 TUBING ANCHOR:  
 NO. OF JOINTS:  
 SEATING NIPPLE:  
 PERFORATED SUB:  
 MUD ANCHOR:  
 TOTAL STRING LENGTH:  
 SN LANDED AT: 5863.58'

## SUCKER RODS

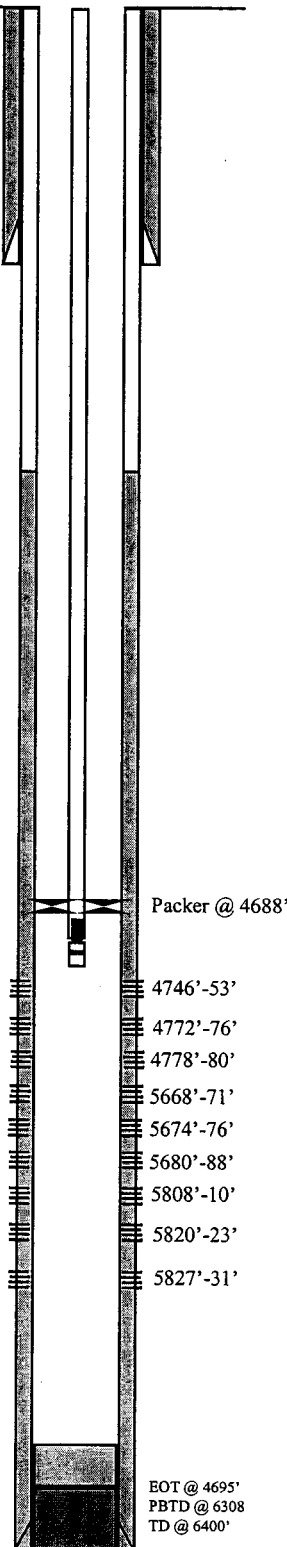
POLISHED ROD: 1-1/4" x 22' SM  
 SUCKER RODS: 232 - 3/4" x 25' D-61 Plain  
 TAL ROD STRING LENGTH:  
 PUMP NUMBER: #? Trico  
 PUMP SIZE: 2-1/2" x 1-1/2" x 16' RWAC w/ SM plunger  
 STROKE LENGTH:  
 PUMP SPEED, SPM:  
 PUMPING UNIT SIZE:  
 PRIME MOVER:  
 LOGS:

## FRAC JOB

6-4-96	5808'-5810'	14,800# 16/30 sd. Treated w/avg press of 2600 psi w/avg rate of 32.8 BPM. ISIP-2180 psi, 5 min 1930 psi.
6-4-96	5668'-5688'	12,500# 16/30 sd. Treated w/avg press of 2050 psi w/avg rate of 32.5 BPM. ISIP-1700 psi, 5 min 1560 psi.
6-7-96	4746'-4780'	13,420# 16/30 sd. Treated w/avg press of 2200 psi w/avg rate of 33.8 BPM. ISIP-1750 psi, 5 min 1550 psi.

## PERFORATION RECORD

6-3-96	5808'-5810'	4 SPF	8 holes
6-3-96	5820'-5823'	4 SPF	12 holes
6-3-96	5827'-5831'	4 SPF	16 holes
6-4-96	5668'-5671'	4 SPF	12 holes
6-4-96	5674'-5676'	4 SPF	8 holes
6-4-96	5680'-5688'	4 SPF	32 holes
6-6-96	4746'-4753'	4 SPF	28 holes
6-6-96	4772'-4776'	4 SPF	16 holes
6-6-96	4778'-4780'	4 SPF	8 holes



**Inland Resources Inc.**

**Monument Federal #13-22-8-17Y**

1446 FSL 863 FWL

NWSW Section 22-T8S-R17E

Duchesne Co, Utah

API #43-013-31583; Lease #U-67845



## Boundary Federal #9-21-8-17

Injection Diagram

## Well History:

8-23-95	Spud Well
9-16-95	Perf: 6,190'-6,201', 6,115'-6,144'
9-20-95	Frac CP-1 and CP-2 zones as follows: Totals 33,050 gal, 163,350#20/40 sd Max TP 1,895 @ 36.4 BPM Avg TP 1,450 @ 35 BPM ISIP 1,895, after 5 min 1,822
9-21-95	Perf: 5,860'-5,876', 5,879'-5,884'
9-22-95	Frac LODC zone as follows: Totals 31,000 gal, 152,000# 20/40 sd Max TP 2,520 @ 41.3 BPM Avg TP 2,200 @ 38 BPM ISIP 2,300, after 5 min 2,243
9-23-95	Perf: 5,448'-5,453'
9-24-95	Frac C-Sd zone as follows: Totals 12,960 gal, 60,000# 20/40 sd Max TP 3,980 @ 27.8 BPM Avg TP 1,550 @ 25 BPM ISIP 1,462, after 5 min. 1,365
9-26-95	Perf: 4,828'-4,848'
9-27-95	Frac GB-7 zone as follows: Totals 27,457 gal, 79,700# 16/30 sd Max TP 2,450 @ 26.6 BPM Avg TP 1,900 @ 24.5 BPM ISIP 2,237, after 5 min. 2,131
3-25-99	Convert to injector.

GL: 5,209'

KB: 5222'

Surface Hole Size: 12 1/4"

Hole Size: 7 7/8"

8-5/8" Surface csg @ 314' w/140sxs  
premium cement

Cement Top @ 981'

5-1/2" J-55 csg @ 6,413' w/335sxs  
Hifill, 400sxs Premium150 jts (4722.65') 2-7/8" 6.5 J-55 TBG@  
4732.65'KB

SN (1.10' @ 4734.66' KB)

Arrowset 1-x Packer (7.33')

Elements @ 4739.01' KB

EOT @ 4743.09' KB

Packer @ 4740' KB

EOT @ 4744' KB

Perf's: 4,828'-48'(PB-7)

Perf's: 5,448'-53'(C-SD)

Perf's: 5,860'-76', 5,879'-84'(LODC)

Perf's: 6,115'-44'(CP-1)

Perf's: 6,190'-6,201'(CP-2)

PBTD @ 6,368'

TD @ 6,413'



Inland Resources Inc.

Boundary Federal #9-21

1980 FSL 660 FEL

NESE Section 21-T8S-R17E

Duchesne Co, Utah

API #43-013-31542; Lease #U-50376

## Boundary Federal #16-21-8-17

Spud Date: 6/14/96  
Put on Production: 7/13/96  
GL: 5208' KB: 5221'

Initial Production: 107 BOPD,  
67 MCFPD, 3 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (283.06')  
DEPTH LANDED: 281.96' GL  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 120 sxs Premium cmt, est 5 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 146 jts. (6258.09')  
DEPTH LANDED: 6255' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 315 sk Hyfill mixed & 360 sxs thixotropic  
CEMENT TOP AT: Surface per CBL

TUBING

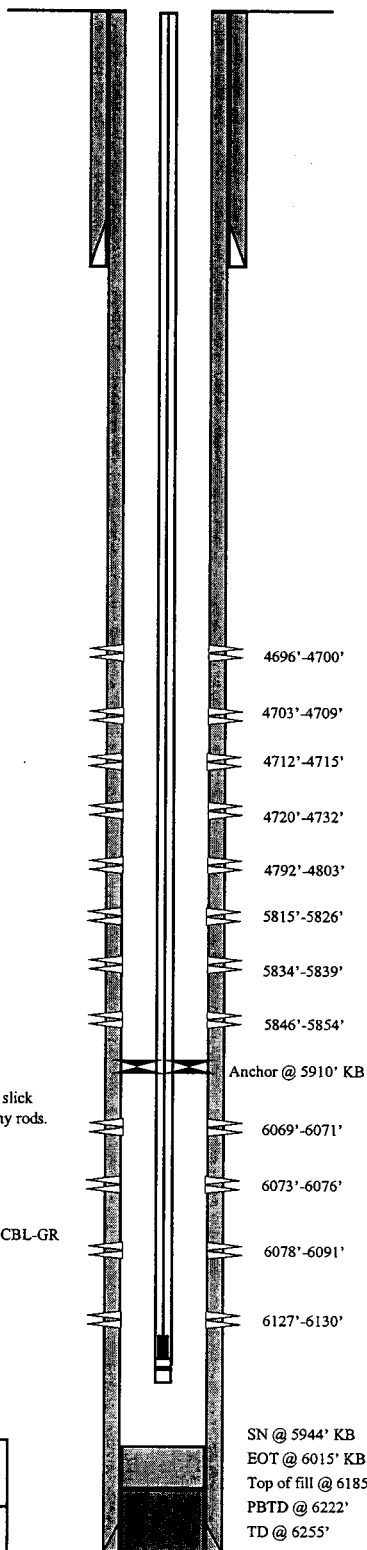
SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#  
NO. OF JOINTS: 188 jts (5897.71')  
TUBING ANCHOR: 5910.71' KB  
NO. OF JOINTS: 1 jts (31.42')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5944.93' KB  
NO. OF JOINTS: 1 jts Perf sub. (6.00')  
NO. OF JOINTS: 2 jts (62.95')  
TOTAL STRING LENGTH: EOT @ 6015.78' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 6-1 1/2" weight rods, 10-3/4" scraper rods, 118-3/4" slick rods, 101-3/4" scraper rods, 1-3/4" plain rod, 1-2", 2-4", 2-6" x 3/4" pony rods.  
PUMP SIZE: 2-1/2" x 1-1/2" x 12 x 15 RHAC  
STROKE LENGTH: 68"  
PUMP SPEED, SPM: 6.5 SPM  
LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

FRAC JOB

7/8/96 6069'-6130' Frac CP-1 sand as follows:  
81,600# of 20/40 sand in 468 bbls of Boragel. Brokedown @ 1806 psi. Treated @ avg rate 20.2 w/ avg press 1500 psi. ISIP-1927.  
7/11/96 4696'-4803' Frac GB-6 & PB-7 sands as follows:  
110,100# of 20/40 sand in 536 bbls of Boragel. Breakdown @ 960 psi. Treated @ avg rate 24.2 bpm w/ avg press of 1350 psi. ISIP-1894 psi.  
5/15/02 5815'-5854' Frac LODC sand as follows:  
67,220# of 20/40 sand in 427 bbls of 1-25 Viking fluid. Treated @ avg press. of 3125 psi @ 15 bpm. ISIP-2150 psi Calc. flush: 1487 gal. Actual flush: 1407 gal.

PERFORATION RECORD

Date	Depth Range	Tool	Holes
7/1/96	6069'-6071'	4 JSPF	8 holes
7/1/96	6073'-6076'	4 JSPF	12 holes
7/1/96	6078'-6091'	4 JSPF	52 holes
7/1/96	6127'-6130'	4 JSPF	12 holes
7/9/96	4696'-4700'	4 JSPF	16 holes
7/9/96	4703'-4709'	4 JSPF	24 holes
7/9/96	4712'-4715'	4 JSPF	12 holes
7/9/96	4720'-4732'	4 JSPF	48 holes
7/9/96	4792'-4803'	4 JSPF	44 holes
4/13/02	5846'-5854'	4 JSPF	32 holes
4/13/02	5834'-5839'	4 JSPF	20 holes
4/13/02	5815'-5826'	4 JSPF	44 holes



Inland Resources Inc.

Boundary Federal #16-21-8-17

660 FSL &amp; 664 FEL

SESE Section 21-T8S-R17E

Duchesne Co, Utah

API #43-013-31627; Lease #U-50376

## Boundary Federal #15-21

Spud Date: 6/4/96  
Put on Injection: 12/23/96  
GL: 5223' KB: 5236'

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (289.27')  
DEPTH LANDED: 288.12' GL  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 120 sxs Premium cmt, est 5 bbls to surf.

PRODUCTION CASING

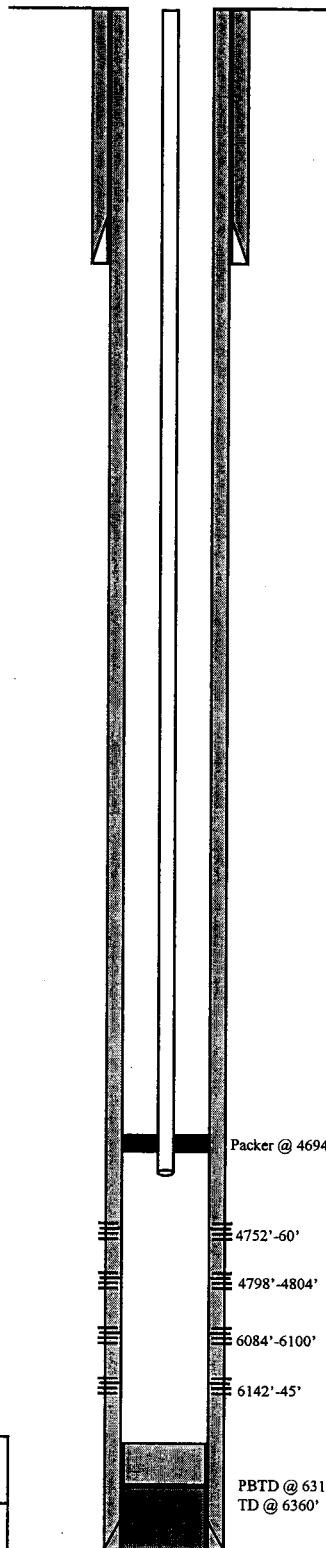
CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 152 jts. (6369.07')  
DEPTH LANDED: 6356.07' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 340 sk Hyfill mixed & 445 sxs thixotropic  
CEMENT TOP AT: Surface per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#  
NO. OF JOINTS: 149 jts.  
PACKER: 4694'  
TOTAL STRING LENGTH: BOT @ 4694'

SUCKER RODS

Injection Diagram



Initial Production: 22 BOPD,  
90 MCFPD, 2 BWPD

FRAC JOB

7/8/96 6084'-6145' Frac CP-1 and CP-2 sand as follows:  
65,400# 20/40 sd in 418 bbls Boragel.  
Brokedown @ 2124 psi. Treated @ avg  
rate 20 bpm, avg press 1600 psi. ISIP-  
2035, 5-min 1923. Flowback after 5 min  
on 16/64 " choke for 1-1/2 hrs & died.

7/10/96 4752'-4804' Frac GB-6 & PB-7 sands as follows:  
82,100# of 20/40 sand w/ 439 bbls of  
Boragel. Breakdown @ 2930 psi. Treated  
@ avg rate 18.3 bpm w/ avg press of  
1600 psi. ISIP: 2194 psi, 5-min 2151 psi.  
Flowback after 5 min on 16/64" ck for 30  
min & died.

12/17/96 Converted to Injector as follows:  
TIH w/5-1/2" pkr & 149 jts 2-7/8" 6.5#  
M-50 tbg to 4694'. Pumped 60 BW w/ 55  
gal Annhib packer fluid down casing. Set  
Packer @ 4694' w/12,000# tension.  
Filled casing w/15 BW & press tested  
annulus 1500 psi, held well.

PERFORATION RECORD

7/1/96	6084'-6100'	4 JSPF	60 holes
7/1/96	6142'-6145'	4 JSPF	12 holes
7/9/96	4752'-4760'	4 JSPF	32 holes
7/9/96	4798'-4804'	4 JSPF	24 holes



Inland Resources Inc.

Boundary Federal #15-21

658 FSL 1980 FEL

SWSE Section 21-T8S-R17E

Duchesne Co, Utah

API #43-013-31622; Lease #U-50376

## Greater Boundary Unit #1-28-8-17

Spud Date: 1/22/02  
Put on Production: 5/22/02  
GL: 5196' KB: 5206'

Initial Production: 28 BOPD,  
55 MCFD, 14 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (295.54')  
DEPTH LANDED: 303.54' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 150 sxs Class "G" cmt, est 3 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 148 jts. (6274.18')  
DEPTH LANDED: 6273.18' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 500 sxs 50/50 POZ.  
CEMENT TOP AT: 235' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 193 jts (5959.08')  
TUBING ANCHOR: 5969.08'  
NO. OF JOINTS: 1 jt (31.26')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 6003.24' KB  
NO. OF JOINTS: 2 jts (62.51')  
TOTAL STRING LENGTH: EOT @ 6067.30'

SUCKER RODS

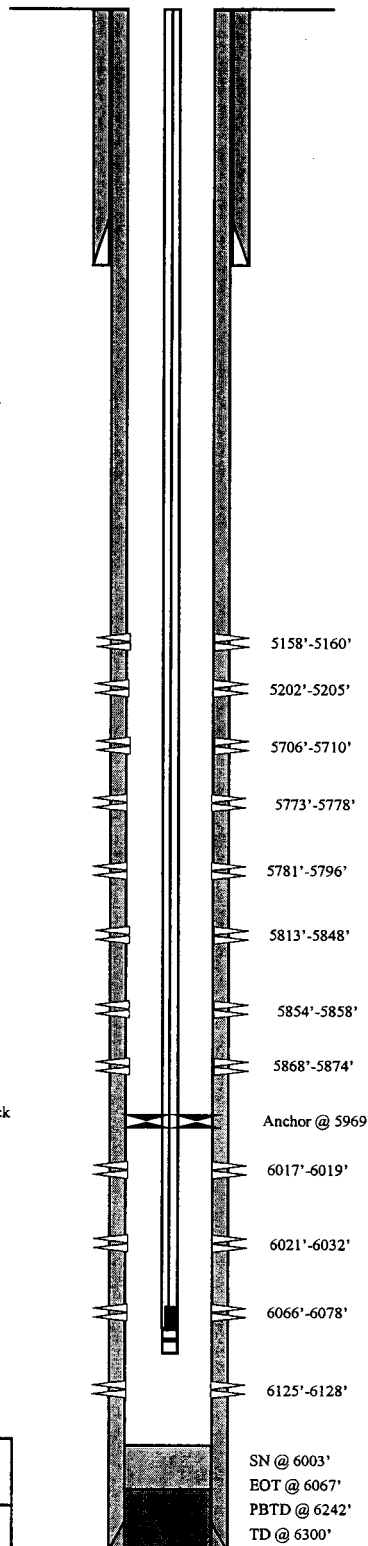
POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 6-1 1/2" weight bars; 10-3/4" scraper rods; 123-3/4" slick rods, 99-3/4" scraper rods, 1-2", 1-6", 1-8" x 3/4" pony rods.  
PUMP SIZE: 2-1/2" x 1-1/2" x 17" RHAC  
STROKE LENGTH: 70"  
PUMP SPEED, SPM: 6.5 SPM  
LOGS: DIGL/SP/GR/CAL

FRAC JOB

5/14/02 6017'-6128' **Frac CP sands as follows:**  
78,993# 20/40 sand in 599 bbls Viking I-25 fluid. Treated @ avg press of 1725 psi w/avg rate of 26.8 BPM. ISIP 2060 psi. Calc. flush: 6017 gal. Actual flush: 5922 gal.

5/14/02 5706'-5874' **Frac LODC sands as follows:**  
203,993# 20/40 sand in 1345 bbls Viking I-25 fluid. Treated @ avg press of 1950 psi w/avg rate of 28.3 BPM. ISIP 2290 psi. Calc. flush: 5706 gal. Actual flush: 5628 gal.

5/14/02 5158'-5205' **Frac D1&D2 sands as follows:**  
33,993# 20/40 sand in 319 bbls Viking I-25 fluid. Treated @ avg press of 2600 psi w/avg rate of 26.2 BPM. ISIP 2200 psi. Calc. flush: 5158 gal. Actual flush: 5082 gal.

PERFORATION RECORD

Date	Interval	Tool	Holes
5/13/02	6125'-6128'	4 JSPF	12 holes
5/13/02	6066'-6078'	4 JSPF	48 holes
5/13/02	6021'-6032'	4 JSPF	44 holes
5/13/02	6017'-6019'	4 JSPF	08 holes
5/14/02	5868'-5874'	2 JSPF	12 holes
5/14/02	5854'-5858'	2 JSPF	08 holes
5/14/02	5813'-5848'	2 JSPF	70 holes
5/14/02	5781'-5796'	2 JSPF	12 holes
5/14/02	5773'-5778'	2 JSPF	10 holes
5/14/02	5706'-5710'	4 JSPF	16 holes
5/14/02	5202'-5205'	4 JSPF	12 holes
5/14/02	5158'-5160'	4 JSPF	08 holes



Inland Resources Inc.

Greater Boundary Unit #1-28-8-17

660' FNL &amp; 101' FEL

NENE Section 28-T8S-R17E

Duchesne Co, Utah

API #43-013-32318; Lease #UTU-76241

## Tar Sands Federal #2-28

Spud Date: 7/12/96  
Put on Production: 10/30/96  
GL: 5220' KB: 5233'

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 js. (290.46')  
DEPTH LANDED: 288.86' GL  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 120 sxs Premium cmt, est 4 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 150 js. (6384.21')  
DEPTH LANDED: 6380.02' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 280 sk Hyfill mixed & 370 sxs thixotropic  
CEMENT TOP AT: Surface per CBL

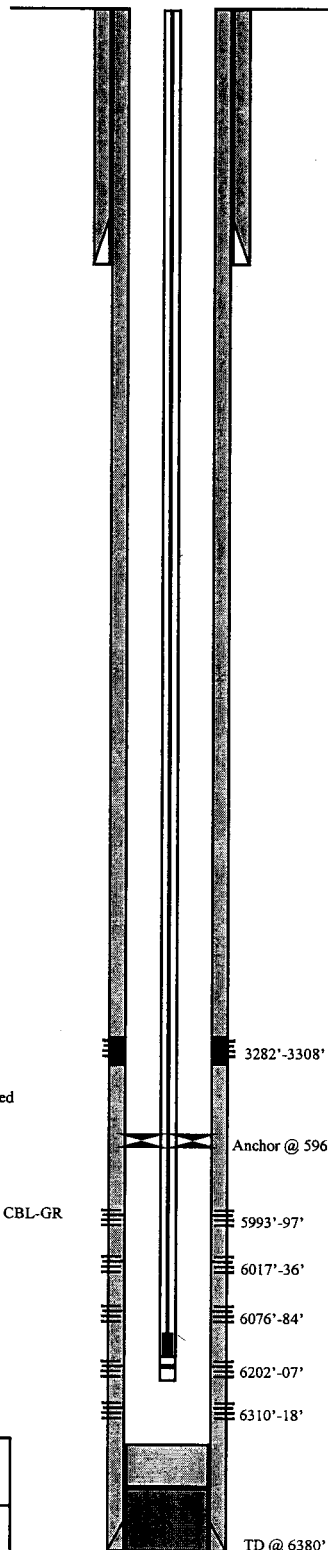
TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#  
NO. OF JOINTS: 198 js  
TUBING ANCHOR: 5969'  
SEATING NIPPLE: 2-7/8" (1.10')  
TOTAL STRING LENGTH: ? (EOT @ 6195')  
SN LANDED AT: 6125'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 8-1" scraped, 137-3/4" plain rods, 99-3/4" scraped  
PUMP SIZE: 2-1/2" x 1-1/2" x 12 x 15 RHAC rod pump  
STROKE LENGTH: 74"  
PUMP SPEED, SPM: 6 SPM  
LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

Wellbore Diagram



Initial Production: 28 BOPD,  
37 MCFPD, 4 BWPD

FRAC JOB

10/8/96 3282'-3308' **Frac K sand as follows:**  
15,400# of 20/40 sand in 88 bbls of Boragel + 30% nitrogen. Breakdown @ 2975 psi. Treated @ avg rate of 10 bpm w/avg press of 2850 psi. ISIP-1946 psi. 5-min 1881 psi. RU flow equip. Flowback after 30 min SI on 8/64" ck for 4 hrs and died.

10/11/96 **Squeeze K perms as follows:**  
30 sks 9# cmt and 30 sks 15.6 PPG @ 1.18 ft<sup>3</sup>/sk Premium cmt w/ additives. Starting press when cmt hit perms @ 1400 psi. Ending press @ 2500 psi. Leave press on csg.

10/22/96 6202'-6318' **Frac CP-4 & CP-5 sands as follows:**  
81,200# of 20/40 sand in 523 bbls of Delta Frac Fluid. Breakdown @ 3860 psi. Treated @ avg rate of 16.5 bpm w/avg press of 3500 psi. ISIP-2291 psi, 5-min 2122 psi. Flowback on 12/64" ck for 6 hrs and died.

10/24/96 5993'-6084' **Frac CP-1 & CP-2 sands as follows:**  
33,800 # of 20/40 sand in 282 bbls of Delta Frac fluid. Started to screen off, so cut sand @ 6.3 PPG & flushed to perms. Placed 33,800# sand into formation. Breakdown @ 3750 psi. Treated @ avg rate of 20.8 bpm w/avg press of 3000 psi. ISIP-1837 psi. 5-min 1710 psi. Flowback on 12/64" ck for 2-1/2 hrs and died.

PERFORATION RECORD

Date	Depth Range	Tool	Holes
10/7/96	3282'-3308'	2 JSPF	52 holes sqz
10/19/96	6202'-6207'	4 JSPF	20 holes
10/19/96	6310'-6318'	4 JSPF	32 holes
10/22/96	5993'-5997'	4 JSPF	16 holes
10/22/96	6017'-6036'	4 JSPF	72 holes
10/22/96	6076'-6084'	4 JSPF	32 holes



Inland Resources Inc.

Tar Sands Federal #2-28

858 FNL 2178 FEL

NWNE Section 28-T8S-R17E

Duchesne Co, Utah

API #43-013-31642; Lease #U-74870

## Tar Sands Federal #8-28-8-17

Spud Date: 7/21/98  
Put on Production: 8/24/98  
GL: 5199' KB: 5210'

Initial Production: 140 BOPD,  
172 MCFPD, 10 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. 292')  
DEPTH LANDED: 292' GL  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 120 sxs Class G

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 146 jts. (6175')  
DEPTH LANDED: 6186' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 350 sxs Premium Lite mixed & 410 sxs Class G  
CEMENT TOP AT:

TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#  
NO. OF JOINTS: 186 jts (5757.77')  
TUBING ANCHOR: 5760.43' KB  
NO. OF JOINTS: 3 jts  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5853.86' KB  
NO. OF JOINTS: 2 jts  
TOTAL STRING LENGTH: EOT @ 5930.84' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 6- 1 1/2" weight rods, 10- 3/4" guided rods, 115- 3/4" plain rods, 103 - 3/4" guided rods, 1-2', 1-6' x 3/4" pony rods.  
PUMP SIZE: 2-1/2" x 1-1/2" x 17 RHAC  
STROKE LENGTH: 74"  
PUMP SPEED, SPM: 5 SPM  
LOGS: DIGL/SP/GR/CAL/CN/CD/CBL-GR

FRAC JOB

8/13/98 5938'-6097' Frac CP sand as follows:  
130,600# of 20/40 sand in 626 bbl Viking I-25 fluid. Treated @ avg press of 1520 w/avg rate of 32.3 bpm. ISIP: 1920 psi.

8/14/98 5614'-5646' Frac A sand as follows:  
119,900# of 20/40 sand in 592 bbls Viking I-25 fluid. Treated @ avg press of 1700 psi w/avg rate of 28.4 bpm. ISIP: 1800 psi.

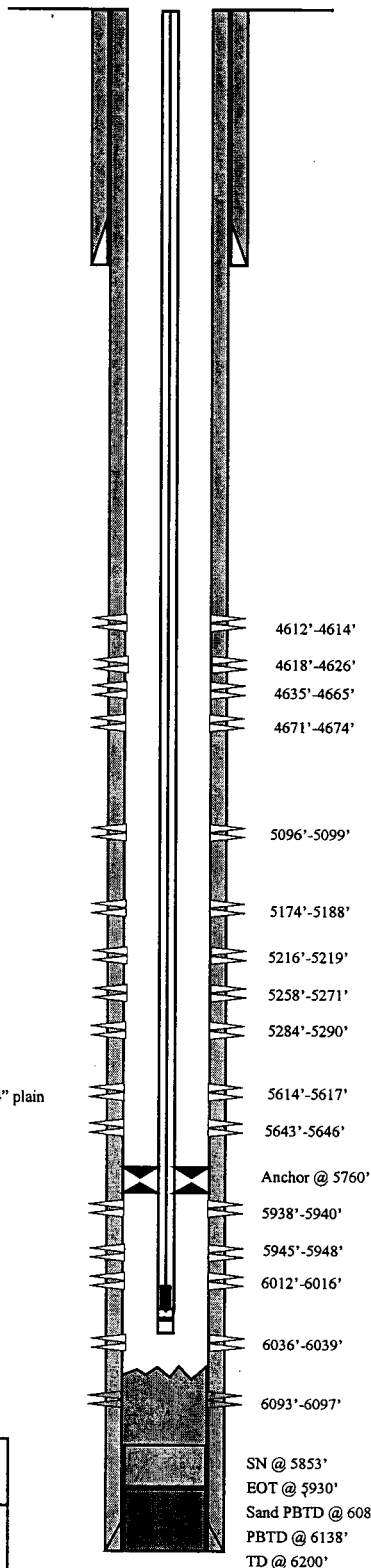
8/16/98 5096'-5290' Frac D/C sand as follows:  
142,000# of 20/40 sand in 681 bbls Viking I-25 fluid. Treated @ avg press of 1855 psi w/avg rate of 37.4 bpm. ISIP: 3780 psi.

8/16/98 4612'-4674' Frac GB sand as follows:  
110,400# of 20/40 sand in 526 bbls Viking I-25 fluid. Treated @ avg press of 1200 psi w/avg rate of 28.2 bpm. ISIP: 1880 psi.

8/02/01 Pump change. Update rod & tubing details.

12/17/01 Pump change. Update pump and PBTD data.

8/07/02 Pump change. Update rod and tubing details.

PERFORATION RECORD

Date	Depth Range	Tool Joint	Holes
8/11/98	5938'-5940'	4 JSPF	8 holes
8/11/98	5945'-5948'	4 JSPF	12 holes
8/11/98	6012'-6016'	4 JSPF	16 holes
8/11/98	6036'-6039'	4 JSPF	12 holes
8/11/98	6093'-6097'	4 JSPF	16 holes
8/13/98	5614'-5617'	4 JSPF	12 holes
8/13/98	5643'-5646'	4 JSPF	12 holes
8/15/98	5096'-5099'	2 JSPF	6 holes
8/15/98	5174'-5188'	2 JSPF	8 holes
8/15/98	5216'-5219'	2 JSPF	6 holes
8/15/98	5258'-5271'	2 JSPF	26 holes
8/15/98	5284'-5290'	2 JSPF	12 holes
8/18/98	4612'-4614'	2 JSPF	4 holes
8/18/98	4618'-4626'	2 JSPF	16 holes
8/18/98	4635'-4665'	2 JSPF	60 holes
8/18/98	4671'-4674'	2 JSPF	6 holes



Inland Resources Inc.

Tar Sands Federal #8-28-8-17

1835 FNL &amp; 784 FEL

SENE Section 28-T8S-R17E

Duchesne Co, Utah

API #43-013-32068; Lease #U-76241

## Greater Boundary Unit #3-27-8-17

Spud Date: 4/16/2001  
Put on Production: 7/23/2001  
GL: 5178' KB: 5188'

Initial Production: 11.6 BOPD,  
15.1 MCFD, 95.4 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 8 jts. (302')  
DEPTH LANDED: 301'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 180 sxs Class "G" cmt, est 5 bbls cmt to surf

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 150 jts.  
DEPTH LANDED: 6299' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 367 sk Prem. Lite II mixed & 525 sxs 50/50 POZ.  
CEMENT TOP AT: ? per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 153 jts (4962.69')  
TUBING PACKER: 4969.59'  
NO. OF JOINTS: 32 jts. (1026.68')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5997.37' KB  
NO. OF JOINTS: 1 jt (32.29')  
TOTAL STRING LENGTH: EOT @ 6030.41'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 4-1 1/2" weight bars; 236-3/4" guided rods.  
PUMP SIZE: 2-1/2" x 1-1/2" x 15' RHAC  
STROKE LENGTH: 72"  
PUMP SPEED, SPM: 5  
LOGS: DIGL/SP/GR/CAL

FRAC JOB

7/16/01 6023'-6204' **Frac CP sand as follows:**  
130,000# 20/40 sand in 768 bbls Viking I-25 fluid. Treated @ avg press of 1550 psi w/avg rate of 35.5 BPM. ISIP 1880 psi. Flowed for 6.5 hrs. then died.

7/17/01 5846'-5882' **Frac LODC sand as follows:**  
120,222# 20/40 sand in 839 bbls Viking I-25 fluid. Treated @ avg press of 2050 psi w/avg rate of 29.5 BPM. ISIP 2310 psi. Flowed for 7.5 hrs. then died.

7/18/01 5265'-5621' **Frac A,C,D. sands as follows:**  
64,220# 20/40 sand in 512 bbls Viking I-25 fluid. Treated @ avg press of 1450 psi w/avg rate of 29.9 BPM. ISIP 1470 psi. Flowed for 4.75 hrs. then died.

7/19/01 5145'-5150' **Frac D-1 sand as follows:**  
26,200# 20/40 sand in 234 bbls Viking I-25 fluid. Treated @ avg press of 1900 psi w/avg rate of 21.8 BPM. Screened out.

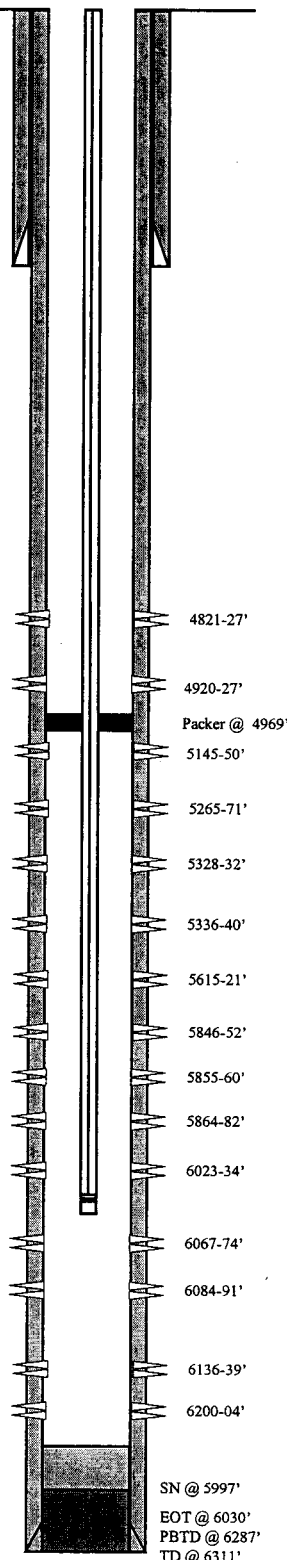
7/19/01 4821'-4927' **Frac PB sand as follows:**  
54,260# 20/40 sand in 447 bbls Viking I-25 fluid. Treated @ avg press of 1943 psi w/avg rate of 29.8 BPM. ISIP 2050 psi. Flowed for 3 hrs. then died.

10/05/01 Isolate PB-8 zone.

10/15/01 Move packer. Update rod and tubing details.

PERFORATION RECORD

7/14/01	6200'-6204'	4 JSPF	16 holes
7/14/01	6136'-6139'	4 JSPF	12 holes
7/14/01	6084'-6091'	4 JSPF	28 holes
7/14/01	6067'-6074'	4 JSPF	36 holes
7/14/01	6023'-6034'	4 JSPF	44 holes
7/17/01	5864'-5882'	4 JSPF	72 holes
7/17/01	5855'-5860'	4 JSPF	20 holes
7/17/01	5846'-5852'	4 JSPF	24 holes
7/18/01	5615'-5621'	4 JSPF	24 holes
7/18/01	5336'-5340'	4 JSPF	16 holes
7/18/01	5328'-5332'	4 JSPF	16 holes
7/18/01	5265'-5271'	4 JSPF	24 holes
7/19/01	5145'-5150'	4 JSPF	20 holes
7/19/01	4920'-4927'	4 JSPF	28 holes
7/19/01	4821'-4827'	4 JSPF	24 holes



Inland Resources Inc.

Greater Boundary Unit #3-27-8-17

857' FNL &amp; 2096' FWL

NENW Section 27-T8S-R17E

Duchesne Co, Utah

API #43-013-32224; Lease #UTU-76241

BDH 10/15/01

## Greater Boundary Unit #4-27-8-17

Spud Date: 1/21/02  
Put on Production: 5/01/02  
GL: 5186' KB: 5196'

Initial Production: 172 BOPD,  
79 MCFD, 18 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (293.20')  
DEPTH LANDED: 301.20' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 150 sxs Class "G" cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 148 jts. (6264.68')  
DEPTH LANDED: 6263.68' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 550 sxs 50/50 POZ.  
CEMENT TOP AT: 270' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 183 jts (5943.19')  
TUBING ANCHOR: 5953.19'  
NO. OF JOINTS: 1 jt (32.53')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5988.52' KB  
NO. OF JOINTS: 2 jts (65.12')  
TOTAL STRING LENGTH: EOT @ 6055.19'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 6-1 1/2" weight bars; 10-3/4" scraper rods; 123-3/4" slick rods, 99-3/4" scraper rods, 1-2", 1-8" x 3/4" pony rods.  
PUMP SIZE: 2-1/2" x 1-1/2" x 14.5' RHAC  
STROKE LENGTH: 88"  
PUMP SPEED, SPM: 6 SPM  
LOGS: DIGL/SP/GR/CAL

FRAC JOB

4/22/02 5987'-6206' **Frac CP sands as follows:**  
75,000# 20/40 sand in 587 bbls Viking I-25 fluid. Treated @ avg press of 1560 psi w/avg rate of 26.8 BPM. ISIP 1880 psi. Calc. flush: 5987 gal. Actual flush: 5922 gal.

4/22/02 5659'-5800' **Frac Up LODC sands as follows:**  
251,766# 20/40 sand in 1646 bbls Viking I-25 fluid. Treated @ avg press of 2150 psi w/avg rate of 28.8 BPM. ISIP 2100 psi. Calc. flush: 5659 gal. Actual flush: 5586 gal.

4/23/02 5583'-5607' **Frac A1 sands as follows:**  
70,802# 20/40 sand in 552 bbls Viking I-25 fluid. Treated @ avg press of 1800 psi w/avg rate of 26.9 BPM. ISIP 1920 psi. Calc. flush: 5583 gal. Actual flush: 5502 gal.

4/23/02 5254'-5392' **Frac B/C/D sands as follows:**  
50,802# 20/40 sand in 426 bbls Viking I-25 fluid. Treated @ avg press of 1925 psi w/avg rate of 27 BPM. ISIP 1785 psi. Calc. flush: 5254 gal. Actual flush: 5187 gal.

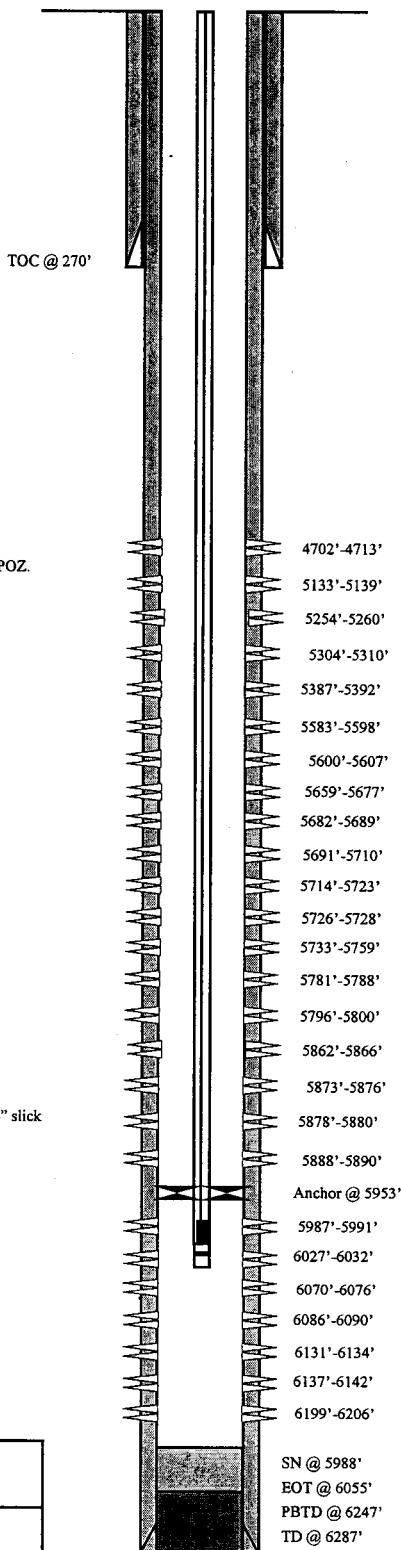
4/23/02 5133'-5139' **Frac D1 sands as follows:**  
20,802# 20/40 sand in 243 bbls Viking I-25 fluid. Treated @ avg press of 1750 psi w/avg rate of 24.6 BPM. Screened out w/ 18,634# sand in frntn, 2168# in csg. Calc. flush: 5133 gal. Actual flush: 4746 gal.

4/23/02 4702'-4713' **Frac GB6 sands as follows:**  
30,802# 20/40 sand in 284 bbls Viking I-25 fluid. Treated @ avg press of 1950 psi w/avg rate of 27 BPM. Screened out at end of flush. Calc. flush: 4702 gal. Actual flush: 4620 gal.

4/26/02 5862'-5890' **Frac Lo LODC sands as follows:**  
19,400# 20/40 sand in 176 bbls Viking I-25 fluid. Treated @ avg press of 3945 psi w/avg rate of 15.4 BPM. ISIP 2200 psi. Calc. flush: 1483 gal. Actual flush: 1386 gal.

PERFORATION RECORD

4/18/02	6199'-6206'	4 JSPF	28 holes
4/18/02	6137'-6142'	4 JSPF	20 holes
4/18/02	6131'-6134'	4 JSPF	12 holes
4/18/02	6086'-6090'	4 JSPF	16 holes
4/18/02	6070'-6076'	4 JSPF	24 holes
4/18/02	6027'-6032'	4 JSPF	20 holes
4/18/02	5987'-5991'	4 JSPF	16 holes
4/22/02	5796'-5800'	2 JSPF	08 holes
4/22/02	5781'-5788'	2 JSPF	14 holes
4/22/02	5733'-5759'	2 JSPF	52 holes
4/22/02	5726'-5728'	2 JSPF	04 holes
4/22/02	5714'-5723'	2 JSPF	18 holes
4/22/02	5691'-5710'	2 JSPF	38 holes
4/22/02	5682'-5689'	2 JSPF	14 holes
4/22/02	5659'-5677'	2 JSPF	36 holes
4/23/02	5600'-5607'	4 JSPF	28 holes
4/23/02	5583'-5598'	4 JSPF	60 holes
4/23/02	5387'-5392'	4 JSPF	20 holes
4/23/02	5304'-5310'	4 JSPF	24 holes
4/23/02	5254'-5260'	4 JSPF	24 holes
4/23/02	5133'-5139'	4 JSPF	24 holes
4/23/02	4702'-4713'	4 JSPF	44 holes
4/26/02	5888'-5890'	4 JSPF	08 holes
4/26/02	5878'-5880'	4 JSPF	08 holes
4/26/02	5873'-5876'	4 JSPF	12 holes
4/26/02	5862'-5866'	4 JSPF	16 holes



SN @ 5988'  
EOT @ 6055'  
PBSD @ 6247'  
TD @ 6287'



Inland Resources Inc.

Greater Boundary Unit #4-27-8-17

660' FNL &amp; 1285' FWL

NWNW Section 27-T8S-R17E

Duchesne Co, Utah

API #43-013-32230; Lease #UTU-76241



## Greater Boundary Unit #5-27-8-17

Spud Date: 4/20/2001  
Put on Production: 6/30/2001  
GL: 5178' KB: 5188'

Initial Production: 209.8 BOPD, 172.4 MCFD,  
47.9 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (306.71')  
DEPTH LANDED: 302.31'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 265 sxs Class "G" cmt.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 147 jts. (6178.46')  
DEPTH LANDED: 6174.06'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 475 sk Prem. Lite II mixed & 400 sxs 50/50 POZ

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 177 jts (5723.34')  
TUBING ANCHOR: 5736.14' KB  
NO. OF JOINTS: 2 jts (64.63')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5801.74' KB  
NO. OF JOINTS: 1 jt (32.20')  
TOTAL STRING LENGTH: BOT @ 5834.15' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 6-1 1/2" weight bars; 10-3/4" guided rods; 126-3/4" slick rods, 89-3/4" guided rods, 1-8", 1-6" x 3/4" pony rods.  
PUMP SIZE: 2-1/2" x 1-1/2" x 16' RHAC  
STROKE LENGTH: 68"  
PUMP SPEED, SPM: 4 SPM  
LOGS: DIGL/SP/GR/CAL

FRAC JOB

6/20/01 5968'-6086' **Frac CP sands as follows:**  
104,030# 20/40 sand in 755 bbls Viking I-25 fluid. Treated @ avg press of 1200 psi w/avg rate of 30.8 BPM. ISIP 1580 psi. Flowed for 8 hrs and died.

6/21/01 5694'-5766' **Frac LODC sands as follows:**  
405,030# 20/40 sand in 2273 bbls Viking I-25 fluid. Treated @ avg press of 1850 psi w/avg rate of 30.3 BPM. ISIP 2170 psi. Flowed for 15 hrs and died.

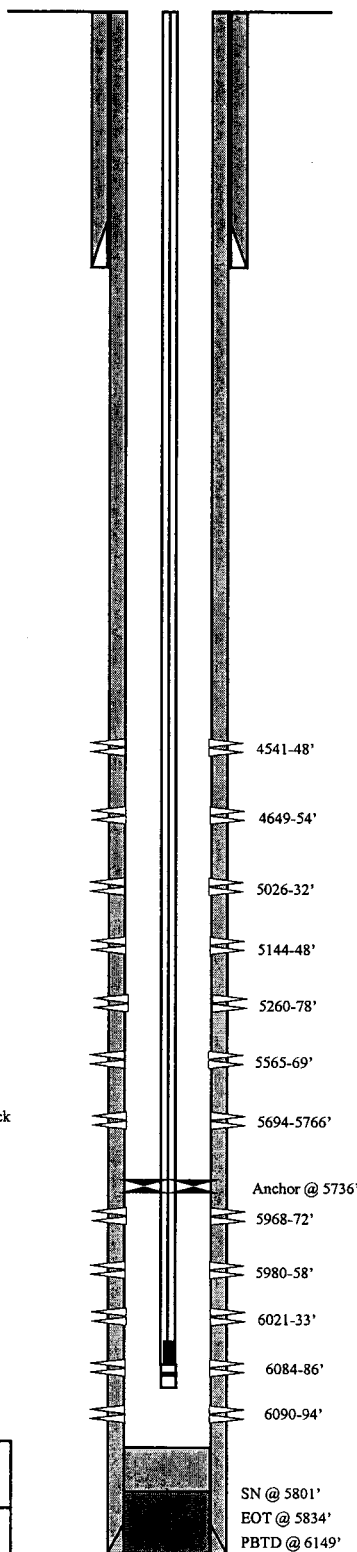
6/22/01 5260'-5278' **Frac C sands as follows:**  
122,540# 20/40 sand in 751 bbls Viking I-25 fluid. Treated @ avg press of 1550 psi w/avg rate of 31.3 BPM. ISIP 2625 psi. Flowed for 7.5 hrs and died.  
**\*Note: A-1 (5565-69') and D-2 (5144-48') did not break. Left unfraced.**

6/25/01 4541'-5032' **Frac GB & D-1 sands as follows:**  
48,280# 20/40 sand in 367 bbls Viking I-25 fluid. Treated @ avg press of 2000 psi w/avg rate of 26.1 BPM. ISIP 1900 psi. Flowed for 2.5 hrs and died.

8/07/01 Pump change. Update rod & tubing details.  
6/05/02 Pump change. Update rod & tubing details.

PERFORATION RECORD

6/19/01	6090'-6094'	4 JSPF	16 holes
6/19/01	6084'-6086'	4 JSPF	8 holes
6/19/01	6021'-6033'	4 JSPF	48 holes
6/19/01	5980'-5985'	4 JSPF	20 holes
6/19/01	5968'-5972'	4 JSPF	16 holes
6/21/01	5694'-5766'	4 JSPF	288 holes
6/22/01	5565'-5569'	4 JSPF	16 holes
6/22/01	5260'-5278'	4 JSPF	72 holes
6/22/01	5144'-5148'	4 JSPF	16 holes
6/25/01	5026'-5032'	4 JSPF	24 holes
6/25/01	4649'-4654'	4 JSPF	20 holes
6/25/01	4541'-4548'	4 JSPF	28 holes



Inland Resources Inc.

Greater Boundary #5-27-8-17

555' FWL &amp; 1823' FNL

SWNW Section 27-T8S-R17E

Duchesne Co, Utah

API #43-013-32225; Lease #UTU-76241

## Greater Boundary Unit #6-27-8-17

Spud Date: 4/20/2001  
Put on Production: 6/18/2001  
GL: 5167' KB: 5177'

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (300.05')  
DEPTH LANDED: 309.05'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 145 sxs Class "G" cmt, est 5 bbls cmt to surf

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 144 jts. (6219.33')  
DEPTH LANDED: 6213.43'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 435 sk Prem. Lite II mixed & 450 sxs 50/50 POZ.  
CEMENT TOP AT: ? per CBL

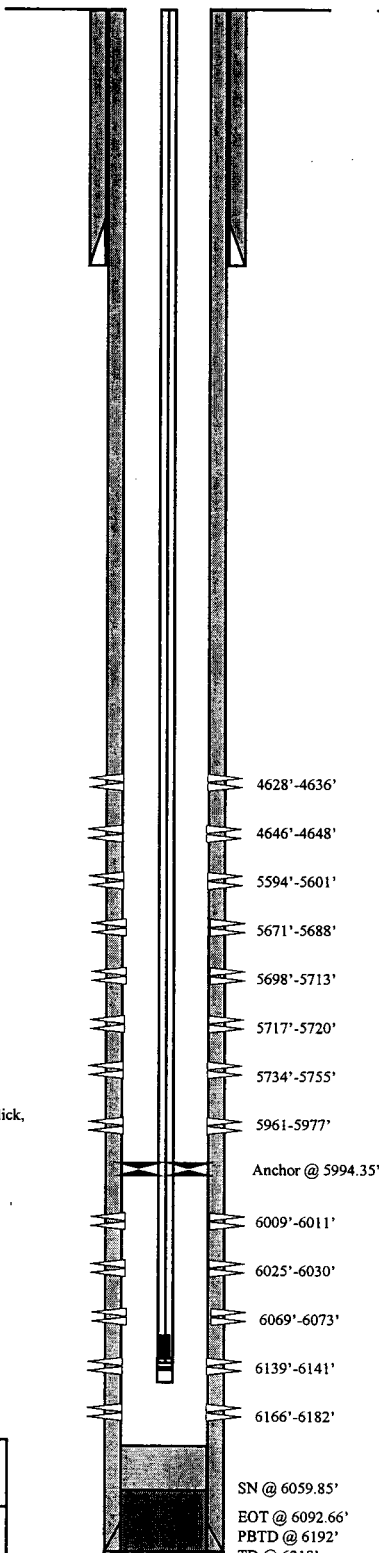
TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 190 jts (5984.35')  
TUBING ANCHOR: 5994.35'  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 6059.85' KB  
TOTAL STRING LENGTH: EOT @ 6092.66'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 4-1 1/2" weight bars; 10-3/4" scraped rods; 137-3/4" slick,  
90-3/4" scraper rods, 1-2', 1-4', 1-6', 1-8'x3/4" pony rods  
PUMP SIZE: 2-1/2" x 1-1/2" x 15' RHAC  
STROKE LENGTH: 73"  
PUMP SPEED, SPM: 5.5 SPM  
LOGS: DIGL/SP/GR/CAL

## Wellbore Diagram



Initial Production: 66 BOPD, 35  
MCFD, 15.5 BWPD

FRAC JOB

6/12/01 5961'-6182' **Frac CP sands as follows:**  
179,206# 20/40 sand in 1056 bbls Viking  
I-25 fluid. Treated @ avg press of 1018  
psi w/avg rate of 29.8 BPM. ISIP 1820  
psi. Flowed 11 hours and died.

6/13/01 5594'-5755' **Frac A/LODC sands as follows:**  
316,254# 20/40 sand in 1977 bbls Viking  
I-25 fluid. Treated @ avg press of 1920  
psi w/avg rate of 31.8 BPM. ISIP 2080  
psi. Flowed 14 hours and died.

6/14/01 4628'-4648' **Frac GB-6 sands as follows:**  
46,920# 20/40 sand in 387 bbls Viking  
I-25 fluid. Treated @ avg press of 1650  
psi w/avg rate of 26.9 BPM. ISIP 2000  
psi. Flowed 3 hours and died.

PERFORATION RECORD

6/11/01	5961'-5977'	4 JSPF	64 holes
6/11/01	6009'-6011'	4 JSPF	8 holes
6/11/01	6025'-6030'	4 JSPF	20 holes
6/11/01	6069'-6073'	4 JSPF	16 holes
6/11/01	6139'-6141'	4 JSPF	8 holes
6/11/01	6166'-6182'	4 JSPF	64 holes
6/13/01	5594'-5601'	4 JSPF	28 holes
6/13/01	5671'-5688'	4 JSPF	68 holes
6/13/01	5717'-5720'	4 JSPF	60 holes
6/13/01	5698'-5713'	4 JSPF	12 holes
6/13/01	5734'-5755'	4 JSPF	84 holes
6/14/01	4628'-4636'	4 JSPF	32 holes
6/14/01	4646'-4648'	4 JSPF	8 holes



Inland Resources Inc.

Greater Boundary Unit #6-27-8-17

1804' FNL &amp; 1996' FWL

SENW Section 27-T8S-R17E

Duchesne Co, Utah

API #43-013-32231; Lease #UTU-76241

BDH 7/13/01

Analytical Laboratory Report for:

Inland Production



BJ Unichem  
Chemical Services

UNICHEM Representative: Rick Crosby

## Production Water Analysis

Listed below please find water analysis report from: CB, 13A-22-8-17

Lab Test No: 2002402745 Sample Date: 08/19/2002  
Specific Gravity: 1.008  
TDS: 9893  
pH: 8.60

Cations:	mg/L	as:
Calcium	80	(Ca <sup>++</sup> )
Magnesium	24	(Mg <sup>++</sup> )
Sodium	3565	(Na <sup>+</sup> )
Iron	3.60	(Fe <sup>++</sup> )
Manganese	0.00	(Mn <sup>++</sup> )
Anions:	mg/L	as:
Bicarbonate	1220	(HCO <sub>3</sub> <sup>-</sup> )
Sulfate	0	(SO <sub>4</sub> <sup>-</sup> )
Chloride	5000	(Cl <sup>-</sup> )
Gases:		
Carbon Dioxide		(CO <sub>2</sub> )
Hydrogen Sulfide	0	(H <sub>2</sub> S)

DownHole SAT(tm)  
MIXED WATER DEPOSITION POTENTIAL INDICATORS

1) Johnson Water

2) CB 13A-22-8-17

Report Date: 08-23-2002

## SATURATION LEVEL

Calcite (CaCO <sub>3</sub> )	112.00
Aragonite (CaCO <sub>3</sub> )	94.90
Anhydrite (CaSO <sub>4</sub> )	0.00260
Gypsum (CaSO <sub>4</sub> *2H <sub>2</sub> O)	0.00318
Barite (BaSO <sub>4</sub> )	0.00
Hydroxyapatite	0.00
Iron hydroxide (Fe(OH) <sub>3</sub> )	3130
Siderite (FeCO <sub>3</sub> )	16.84
Iron sulfide (FeS)	0.00

## MOMENTARY EXCESS (Lbs/1000 Barrels)

Calcite (CaCO <sub>3</sub> )	34.94
Aragonite (CaCO <sub>3</sub> )	34.85
Witherite (BaCO <sub>3</sub> )	-0.514
Strontianite (SrCO <sub>3</sub> )	-0.0940
Anhydrite (CaSO <sub>4</sub> )	-503.12
Gypsum (CaSO <sub>4</sub> *2H <sub>2</sub> O)	-510.40
Barite (BaSO <sub>4</sub> )	-0.471
Hydroxyapatite	-248.59
Iron hydroxide (Fe(OH) <sub>3</sub> )	< 0.001
Siderite (FeCO <sub>3</sub> )	0.00209
Iron sulfide (FeS)	-0.0155

## SIMPLE INDICES

Langelier	2.64
Stiff Davis Index	2.57

## BOUND IONS

	TOTAL	FREE
Calcium	77.70	40.74
Barium	0.00	0.00
Carbonate	425.15	155.92
Phosphate	0.00	0.00
Sulfate	35.00	31.27

## OPERATING CONDITIONS

Temperature (°F)	100.00
Time (mins)	3.00

UNICHEM - Corporate Office  
14505 Torrey Chase Boulevard, Houston, Texas 77014

# UNICHEM

A Division of BJ Services

P.O. Box 217  
Roosevelt, Utah 84066

Office (435) 722-5066  
Fax (435) 722-5727

## WATER ANALYSIS REPORT

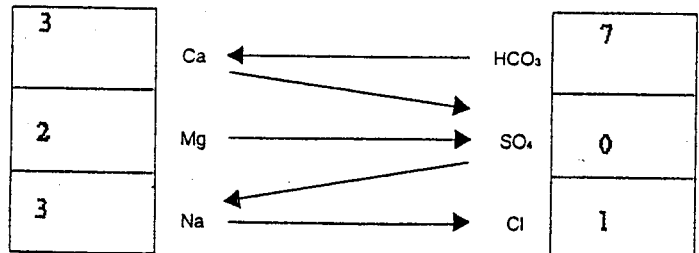
Company Inland Address \_\_\_\_\_ Date 3/15/01  
Source JWL Pump Station #2 Date Sampled 3/14/01 Analysis No. \_\_\_\_\_  
Pump Suction

	Analysis	mg/l(ppm)	*Meg/l
1. PH	8.3		
2. H <sub>2</sub> S (Qualitative)	0.0		
3. Specific Gravity	1.001		
4. Dissolved Solids		614	
5. Alkalinity (CaCO <sub>3</sub> )		0	0
6. Bicarbonate (HCO <sub>3</sub> )		427	7
7. Hydroxyl (OH)		0	0
8. Chlorides (Cl)		35	1
9. Sulfates (SO <sub>4</sub> )		0	0
10. Calcium (Ca)		56	3
11. Magnesium (Mg)		27	2
12. Total Hardness (CaCO <sub>3</sub> )		250	
13. Total Iron (Fe)		.6	
14. Manganese		0.0	
15. Phosphate Residuals			

\*Milli equivalents per liter

### PROBABLE MINERAL COMPOSITION

Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO <sub>3</sub> ) <sub>2</sub>	81.04	3			243
CaSO <sub>4</sub>	68.07				
CaCl <sub>2</sub>	55.50				
Mg(HCO <sub>3</sub> ) <sub>2</sub>	73.17	2			146
MgSO <sub>4</sub>	60.19				
MgCl <sub>2</sub>	47.62				
NaHCO <sub>3</sub>	84.00	2			168
Na <sub>2</sub> SO <sub>4</sub>	71.03				
NaCl	58.46	1			59



Saturation Values  
CaCO<sub>3</sub> 13 Mg/l  
CaSO<sub>4</sub> · 2H<sub>2</sub>O 2,090 Mg/l  
MgCO<sub>3</sub> 103 Mg/l  
Complete

REMARKS \_\_\_\_\_

# Attachment "G"

## Canvasback 13A-22-8-17 Proposed Maximum Injection Pressure

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
6023	6109	6066	2150	0.79	2122
5782	5953	5868	3300	1.00	3239
5594	5774	5684	1990	0.78	1946
5411	5414	5413	1975	0.80	1963
5188	5280	5234	1700	0.76	1674
4599	4693	4646	1940	0.85	1910
				Minimum	1674

### Calculation of Maximum Surface Injection Pressure

$$P_{max} = (Frac\ Grad - (0.433 \times 1.005)) \times \text{Depth of Top Perf}$$
 where pressure gradient for the fresh water is .433 psi/ft and  
 specific gravity of the injected water is 1.005.

$$Frac\ Gradient = (ISIP + (0.433 \times Avg.\ Depth)) / Avg.\ Depth$$

**Please note:** These are existing perforations; additional perforations may be added during the actual conversion procedure.



Attachment  
1 of 5

### DAILY COMPLETION REPORT

WELL NAME: Canvasback 13A-22-8-17 Report Date: June 28, 2002 Completion Day: 02  
Present Operation: Completion Rig: Rigless

#### WELL STATUS

Surf Csg: 8 5/8 @ 301' Prod Csg: 5 1/2 Wt: 15.5# @ 6322' Csg PBTD: 6264' WL  
Tbg: Size: Wt: Grd: Anchor @: BP/Sand PBTD: 5975

#### PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
BS	5782-5846'	4/256	BS	5948-5953'	4/20
BS	5894-5899'	4/20	CP1 sds	6023-6034'	4/44
BS	5905-5907'	4/8	CP1 sds	6036-6040'	4/16
BS	5910-5912'	4/8	CP1 sds	6042-6051'	4/36
BS	5944-5946'	4/8	CP2 sds	6104-6109'	4/20

#### CHRONOLOGICAL OPERATIONS

Date Work Performed: June 27, 2002 SITP:            SICP: 2150

#### Day 2(b):

RU Schlumberger WLT, lubricator & crane. Run Weatherford 5 1/2" composite flow-through frac plug & 4" perf guns. Set plug @ 5975'. Perf BS as follows: 5948-53', 5944-46', 5910-12', 5905-07', 5894-99' & 5782-5846'. All 4 JSPF W/ 6 runs total (W/ 1 misrun). RD WLT--RU BJ. Frac BS W/ 151,000# 20/40 sand in 1013 bbls Viking I-25 fluid. Saw perfs break back @ 2795 psi 30 bbls into job. Treated @ ave press of 2550 psi W/ ave rate of 24.7 BPM. ISIP-3300 psi. Frac acted screened out W/ 30 bbls left to flush, was able to complete 136 bbl flush by stepping down rate. RD BJ. Begin immediate flowback of BS & CP fracs on 12/64 choke @ 1 BPM. Zones flowed 10 1/2 hrs & died. Rec 638 BTF (est 36% of combined frac loads). SIFN W/ est 1276 BWTR.

#### FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 901 Starting oil rec to date: 0  
Fluid lost/recovered today: 375 Oil lost/recovered today:             
Ending fluid to be recovered: 1276 Cum oil recovered: 0  
IFL:            FFL:            FTP:            Choke: 12/64 Final Fluid Rate:            Final oil cut:           

#### STIMULATION DETAIL

Base Fluid used: Viking I-25 Job Type: Sand frac  
Company: BJ Services  
Procedure or Equipment detail: BS zone

11200 gals of pad

7000 gals W/ 1-5 ppg of 20/40 sand

16154 gals W/ 5-8 ppg of 20/40 sand

2466 gals W/ 8 ppg of 20/40 sand

Flush W/ 5712 gals of slick water

#### COSTS

Weatherford service	\$600
BJ Services-BS	\$32,100
TMT frac water (trucked)	\$1,700
IPC fuel gas	\$100
Weatherford frac plug	\$3,200
IPC flowback super	\$400
IPC supervision	\$100

Max TP: 3940 Max Rate: 24.7 BPM Total fluid pmpd: 1013 bbls  
Avg TP: 2550 Avg Rate: 24.7 BPM Total Prop pmpd: 151,000#  
ISIP: 3300 5 min:            10 min:            FG: 1.0

Completion Supervisor: Gary Dietz

DAILY COST: \$38,200  
TOTAL WELL COST: \$258,200



2 of 5

## DAILY COMPLETION REPORT

WELL NAME: Canvasback 13A-22-8-17Report Date: June 29, 2002Completion Day: 03Present Operation: CompletionRig: Rigless

## WELL STATUS

Surf Csg: 8 5/8 @ 301' Prod Csg: 5 1/2 Wt: 15.5# @ 6322' Csg PBTD: 6264' WL  
Tbg: Size: Wt: Grd: Anchor @: BP/Sand PBTD: 5975  
BP/Sand PBTD: 5780'

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
LODC sds	5594-5604'	4/40	BS	5905-5907'	4/8
LODC sds	5690-5698'	4/32	BS	5910-5912'	4/8
LODC sds	5706-5710'	4/16	BS	5944-5946'	4/8
LODC sds	5722-5744'	4/88	BS	5948-5953'	4/20
LODC sds	5753-5774'	4/84	CP1 sds	6023-6034'	4/44
BS	5782-5846'	4/256	CP1 sds	6036-6040'	4/16
BS	5894-5899'	4/20	CP1 sds	6042-6051'	4/36
			CP2 sds	6104-6109'	4/20

## CHRONOLOGICAL OPERATIONS

Date Work Performed: June 27, 2002SITP:            SICP: 200

## Day 3(a):

200 psi SICP after 3 hrs. Bleed well down slowly, stays flowing water W/ tr oil & gas (shut in). Rec est 5 BTF. RU Schlumberger WLT, lubricator & crane. First run: ran 4" perf gun to 5790' without tagging sand. Perf lower 21' section of LODC sds. Second run: ran Weatherford 5 1/2" composite flow-through frac plug & 11' gun. Set plug @ 5780'. Became stuck in sand. Able to free setting tool & gun by flowing well back (rec add'l 3 BTF). Continue perfring LODC sands as follows: 5753-74', 5722-44', 5706-10', 5690-98' & 5594-5604'. All 4 JSPF. 4 runs total. RU BJ Services and frac LODC sds W/ 204,340# 20/40 sand in 1316 bbls Viking I-25 fluid. Perfs broke down @ 3783 psi. Treated @ ave press of 1600 psi W/ ave rate of 26 BPM. ISIP-1990 psi. Leave pressure on well. Est 2584 BWTR.

## See day 3(b)

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 1276 Starting oil rec to date: 0  
Fluid lost/recovered today: 1308 Oil lost/recovered today:             
Ending fluid to be recovered: 2584 Cum oil recovered: 0  
IFL:            FFL:            FTP:            Choke:            Final Fluid Rate:            Final oil cut:           

## STIMULATION DETAIL

Base Fluid used: Viking I-25 Job Type: Sand fracCompany: BJ ServicesProcedure or Equipment detail: LODC sands15100 gals of pad10000 gals W/ 1-5 ppg of 20/40 sand21232 gals W/ 5-8 ppg of 20/40 sand3418 gals W/ 8 ppg of 20/40 sandFlush W/ 5502 gals of slick water

## COSTS

Weatherford BOP \$200BJ Services-LODC sds \$33,200TMT frac water (trucked) \$1,700IPC fuel gas \$100Weatherford frac plug \$3,200Weatherford service \$600Schlumberger-LODC \$7,000IPC supervision \$100Max TP: 2230 Max Rate: 26 BPM Total fluid pmpd: 1316 bblsAvg TP: 1600 Avg Rate: 26 BPM Total Prop pmpd: 204,340#ISIP: 1990 5 min:            10 min:            FG: .78Completion Supervisor: Gary DietzDAILY COST: \$46,100TOTAL WELL COST: \$304,300





3 of 5

## DAILY COMPLETION REPORT

WELL NAME: Canvasback 13A-22-8-17 Report Date: June 29, 2002 Completion Day: 03  
Present Operation: Completion Rig: Rigless

## WELL STATUS

Surf Csg: 8 5/8 @ 301' Prod Csg: 5 1/2 Wt: 15.5# @ 6322' Csg PBTD: 6264' WL  
Tbg: Size: Wt: Grd: Anchor @: BP/Sand PBTD: 5975', 5780'  
BP/Sand PBTD: 5500'

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
B .5 sds	5411-5414'	4/12	BS	5905-5907'	4/8
LODC sds	5594-5604'	4/40	BS	5910-5912'	4/8
LODC sds	5690-5698'	4/32	BS	5944-5946'	4/8
LODC sds	5706-5710'	4/16	BS	5948-5953'	4/20
LODC sds	5722-5744'	4/88	CP1 sds	6023-6034'	4/44
LODC sds	5753-5774'	4/84	CP1 sds	6036-6040'	4/16
BS	5782-5846'	4/256	CP1 sds	6042-6051'	4/36
BS	5894-5899'	4/20	CP2 sds	6104-6109'	4/20

## CHRONOLOGICAL OPERATIONS

Date Work Performed: June 27, 2002 SITP:            SICP: 1990

## Day 3(b):

RU Schlumberger and run Weatherford 5 1/2" composite flow-through frac plug & 4" perf gun. Set plug @ 5500'. Perf B .5 sds @ 5411-14' W/ 4 JSPF. All 1 run. RU BJ Services and frac B sds W/ 20,626# 20/40 sand in 269 bbls Viking I-25 fluid. Perfs broke down @ 1740 psi. Treated @ ave press of 2490 psi W/ ave rate of 26 BPM. ISIP-1975 psi. Leave pressure on well. Est 2853 BWTR.

## See day 3(c)

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 2584 Starting oil rec to date: 0  
Fluid lost/recovered today: 269 Oil lost/recovered today:             
Ending fluid to be recovered: 2853 Cum oil recovered: 0  
IFL:            FFL:            FTP:            Choke:            Final Fluid Rate:            Final oil cut:           

## STIMULATION DETAIL

Base Fluid used: Viking I-25 Job Type: Sand frac  
Company: BJ Services  
Procedure or Equipment detail: B .5 sands

1665 gals of pad

1500 gals W/ 1-5 ppg of 20/40 sand

2784 gals W/ 5-8 ppg of 20/40 sand

Flush W/ 5334 gals of slick water

## COSTS

Weatherford frac plug	\$3,200
BJ Services-B sds	\$15,800
TMT frac water (trucked)	\$400
IPC fuel gas	\$100
Schlumberger-B sds	\$2,400
IPC supervision	\$100

Max TP: 2840 Max Rate: 26.1 BPM Total fluid pmpd: 269 bbls  
Avg TP: 2490 Avg Rate: 26 BPM Total Prop pmpd: 20,626#  
ISIP: 1975 5 min:            10 min:            FG: .79  
Completion Supervisor: Gary Dietz

DAILY COST: \$22,000  
TOTAL WELL COST: \$326,300



4 of 5

## DAILY COMPLETION REPORT

WELL NAME: Canvasback 13A-22-8-17

Report Date: June 29, 2002

Completion Day: 03

Present Operation: Completion

Rig: Rigless

## WELL STATUS

Surf Csg: 8 5/8 @ 301' Prod Csg: 5 1/2 Wt: 15.5# @ 6322' Csg PBTD: 6264' WL  
Tbg: Size: Wt: Grd: Anchor @: BP/Sand PBTD: 5975', 5780'  
BP/Sand PBTD: 5500', 5300'

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
D1 sds	5188-5194'	4/24	BS	5894-5899'	4/20
D3 sds	5276-5280'	4/16	BS	5905-5907'	4/8
B .5 sds	5411-5414'	4/12	BS	5910-5912'	4/8
LODC sds	5594-5604'	4/40	BS	5944-5946'	4/8
LODC sds	5690-5698'	4/32	BS	5948-5953'	4/20
LODC sds	5706-5710'	4/16	CP1 sds	6023-6034'	4/44
LODC sds	5722-5744'	4/88	CP1 sds	6036-6040'	4/16
LODC sds	5753-5774'	4/84	CP1 sds	6042-6051'	4/36
BS	5782-5846'	4/256	CP2 sds	6104-6109'	4/20

## CHRONOLOGICAL OPERATIONS

Date Work Performed: June 27, 2002

SITP: SICIP: 1975

## Day 3(c):

RU Schlumberger and run Weatherford 5 1/2" composite flow-through frac plug & 4" perf guns. Set plug @ 5300'. Perf D3 sds @ 5276-80' & D1 sds @ 5188-94' W/ 4 JSPF. All 1 run. RU BJ Services and frac D sds W/ 40,436# 20/40 sand in 390 bbls Viking I-25 fluid. Perfs broke down @ 3360 psi. Treated @ ave press of 1630 psi W/ ave rate of 26.1 BPM. ISIP-1700 psi. Leave pressure on well. Est 3243 BWTR.

## See day 3(d)

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 2853 Starting oil rec to date: 0  
Fluid lost/recovered today: 390 Oil lost/recovered today:  
Ending fluid to be recovered: 3243 Cum oil recovered: 0  
IFL: FFL: FTP: Choke: Final Fluid Rate: Final oil cut:

## STIMULATION DETAIL

Base Fluid used: Viking I-25 Job Type: Sand frac

Company: BJ Services

Procedure or Equipment detail: D1 &amp; D3 sands

3330 gals of pad

3000 gals W/ 1-5 ppg of 20/40 sand

4980 gals W/ 5-8 ppg of 20/40 sand

Flush W/ 5082 gals of slick water

## COSTS

Weatherford frac plug \$3,200

BJ Services-D sds \$10,900

TMT frac water (trucked) \$400

IPC fuel gas \$100

Schlumberger-D sds \$2,700

IPC supervision \$100

Max TP: 1630 Max Rate: 26.4 BPM Total fluid pmpd: 390 bbls

Avg TP: 2191 Avg Rate: 26.1 BPM Total Prop pmpd: 40,436#

ISIP: 1700 5 min: 10 min: FG: .76

Completion Supervisor: Gary Dietz

DAILY COST: \$17,400

TOTAL WELL COST: \$343,700

**Completion Day: 03**

Rig: Rigless

**BP/Sand PBTD:** 4920'

6104-6109 4/20

**SITP:**                      **SICP:**      1700

RU Schlumberger and run Weatherford 5 1/2" composite flow-through frac plug & 4" perf guns. Set plug @ 4920'. Perf PB10 sds @ 4868-71', GB6 sds @ 4687-93' & GB4 sds @ 4599-4606'. All 4 JSPF. 2 runs total. RU BJ Services and frac GB/PB sds W/ 64,340# 20/40 sand in 403 bbls Viking I-25 fluid. Perfs broke down @ 1840 psi. Treated @ ave press of 1890 psi W/ ave rate of 26 BPM. ISIP-1940 psi. RD BJ & WLT. Begin immediate flowback of all four fracs on 12/64 choke @ 1 BPM. Zones flowed 14 hrs rec 740 BTF (est 31 % of combined frac loads). SIFN W/ est 2906 BWTR.

Starting fluid load to be recovered:	<u>3243</u>	Starting oil rec to date:	<u>0</u>
Fluid lost/recovered today:	<u>337</u>	Oil lost/recovered today:	<u></u>
Ending fluid to be recovered:	<u>2906</u>	Cum oil recovered:	<u>0</u>
IFL:	FFL:	FTP:	Choke: 12/64
			Final Fluid Rate:
			Final oil cut: 2%

IPC supervision	\$100
-----------------	-------

**TOTAL WELL COST:** \$366,400

**ATTACHMENT H**  
**WORK PROCEDURE FOR PLUGGING AND ABANDONMENT**

1. Set CIBP @ 4505'.
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class G cement.
3. Plug #2 Set 200' plug from 2000'-2200' with 25 sx Class "G" cement.
4. RU perforators and perforate with 4 shots at 351'.
5. Plug #3 Circulate 110 sx Class G cement down 5-1/2" casing and up the 5-1/2" x 8-5/8" annulus from 351' to surface.

The approximate cost to plug and abandon this well is \$33,025.

# Canvasback #13A-22-8-17

Spud Date: 4/16/02  
Put on Production: 7/03/02  
GL: 5161' KB: 5171'

Initial Production: 83 BOPD,  
90 MCFD, 6 BWPD

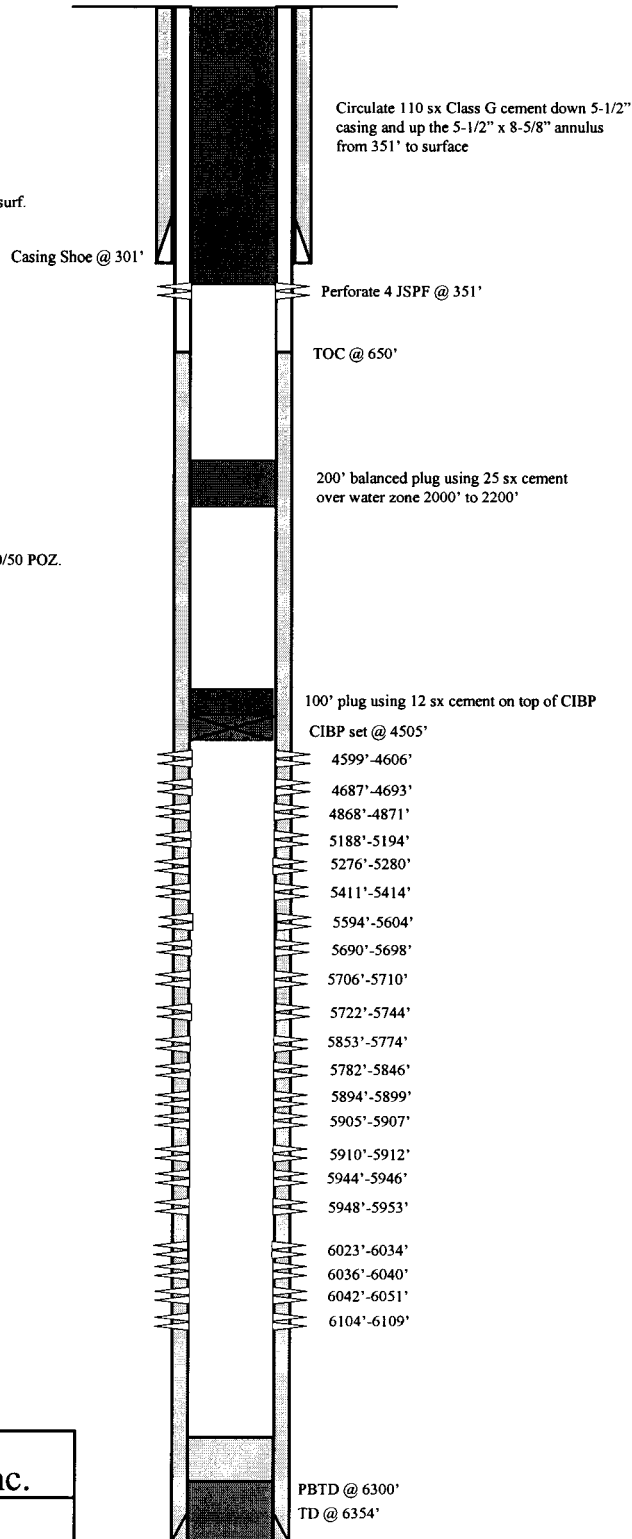
## Proposed P & A Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (292.65')  
DEPTH LANDED: 300.65'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 150 sxs Class "G" cmt, est 6 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 142 jts. (6324.34')  
DEPTH LANDED: 6321.94'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 550 sxs 50/50 POZ.  
CEMENT TOP AT: 650' per CBL



**Inland Resources Inc.**

**Canvasback #13A-22-8-17**

565' FSL & 822' FWL

SWSW Section 22-T8S-R17E

Duchesne Co, Utah

API #43-013-32238; Lease #UTU-77233

MC 8/29/02

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well



Oil Well



Gas well



Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**410 17th Street, Suite 700, Denver, CO 80202**

**(303) 893-0102**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**SW/SW**

**565' FSL, 822' FWL**

**Sec. 22, T8S, R17E**

5. Lease Designation and Serial No.

**UTU-77233**

6. If Indian, Allottee or Tribe Name

**NA**

7. If unit or CA, Agreement Designation

**Canvasback**

8. Well Name and No.

**Canvasback 13A-22-8-17**

9. API Well No.

**43-013-32238**

10. Field and Pool, or Exploratory Area

**Monument Butte**

11. County or Parish, State

**Duchesne County, Utah**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION



Notice of Intent



Subsequent Report



Final Abandonment Notice

TYPE OF ACTION



Abandonment



Recompletion



Plugging Back



Casing repair



Altering Casing



Other \_\_\_\_\_



Change of Plans



New Construction



Non-Routine Fracturing



Water Shut-off



Conversion to Injection



Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directly drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

Please see attached injection application.

14. I hereby certify that the foregoing is true and correct

Signed

*David Gerbig*  
**David Gerbig**

Title

**Operations Engineer**

Date

*11-1-02*

(This space of Federal or State office use.)

Approved by \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly to make to any department of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

*SUBMIT IN TRIPLICATE*

1. Type of Well

☒ Oil Well ☐ Gas well ☐ Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**410 17th Street, Suite 700, Denver, CO 80202 (303) 893-0102**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**SW/SW 565' FSL, 822' FWL Sec. 22, T8S, R17E**

5. Lease Designation and Serial No.

**UTU-77233**

6. If Indian, Allottee or Tribe Name

**NA**

7. If unit or CA, Agreement Designation

**Canvasback**

8. Well Name and No.

**Canvasback 13A-22-8-17**

9. API Well No.

**43-013-32238**

10. Field and Pool, or Exploratory Area

**Monument Butte**

11. County or Parish, State

**Duchesne County, Utah**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
- ☐ Subsequent Report
- ☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
- ☐ Recompletion
- ☐ Plugging Back
- ☐ Casing repair
- ☐ Altering Casing
- ☐ Other \_\_\_\_\_
- ☐ Change of Plans
- ☐ New Construction
- ☐ Non-Routine Fracturing
- ☐ Water Shut-off
- ☒ Conversion to Injection
- ☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

Please see attached injection application.

14. I hereby certify that the foregoing is true and correct

Signed

**David Gerbig**

Title

**Operations Engineer**

Date

**11-1-02**

(This space of Federal or State office use.)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly to make to any department of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

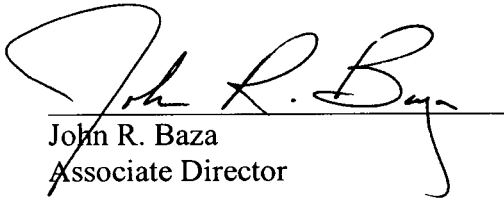
Any person desiring to object to the proposed application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for this proceeding is John R. Baza, Associate Director at PO Box 145801, Salt Lake City, Utah 84114-5801, phone number (801) 538-5334. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedure rule. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.



Page Two  
Cause No. UIC-300

Dated this 19th day of November, 2002.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING



John R. Baza  
Associate Director

**Inland Production Company**  
**Canvasback13A-22-8-17, State 11-32-8-17, Ashley 7-11-9-15 and West Point 5-17-9-16**  
**Cause No. UIC-300**

Publication Notices were sent to the following:

Inland Production Company  
410 17th St, Suite 700  
Denver, CO 80202

Uintah Basin Standard  
268 S 200 E  
Roosevelt UT 84066-3109


via E-Mail and Facsimile (801) 237-2776  
Salt Lake Tribune  
PO Box 45838  
Salt Lake City, UT 84145

Vernal District Office  
Bureau of Land Management  
170 S 500 E  
Vernal UT 84078

School & Institutional Trust Lands Administration  
675 East 500 South, Suite 500  
Salt Lake City, Utah 84102-2818

Duchesne County Planning  
PO Box 317  
Duchesne UT 84021-0317

Dan Jackson  
US EPA Region VIII, Suite 5000  
999 18th Street  
Denver, CO 80202-2466

  
Earlene Russell  
Executive Secretary  
November 19, 2002

# AFFIDAVIT OF PUBLICATION

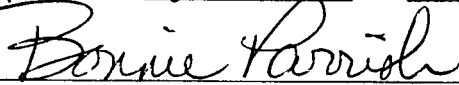
County of Duchesne,  
STATE OF UTAH

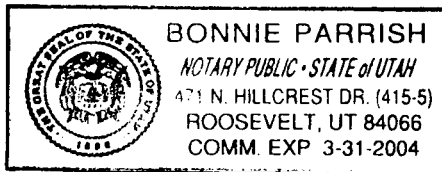
I, Craig L. Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 26 day of November, 2002, and that the last publication of such notice was in the issue of such newspaper dated the 26 day of November, 2002.

  
\_\_\_\_\_  
Publisher

Subscribed and sworn to before me this

29 day of November, 2002

  
\_\_\_\_\_  
Notary Public



## NOTICE OF AGENCY ACTION CAUSE NO. UIC-300

IN THE MATTER OF  
THE APPLICATION OF  
INLAND PRODUCTION  
COMPANY FOR ADMIN-  
ISTRATIVE APPROVAL  
OF THE CANVASBACK  
13A-22-8-17 WELL LO-  
CATED IN SECTION 22,  
AND STATE 11-32-8-17  
WELL LOCATED IN  
SECTION 32, TOWNSHIP  
8 SOUTH, RANGE 17  
EAST, ASHLEY 7-11-9-15  
WELL LOCATED IN  
SECTION 11, TOWNSHIP  
9 SOUTH, RANGE 15  
EAST, AND WEST POINT  
5-16-9-16 WELL, LO-  
CATED IN SECTION 17,  
TOWNSHIP 9 SOUTH,  
RANGE 16 EAST,  
DUCHESNE COUNTY,  
UTAH, AS CLASS II IN-  
JECTION WELLS

THE STATE OF UTAH  
TO ALL PERSONS IN-  
TERESTED IN THE  
ABOVE ENTITLED  
MATTER.

Notice is hereby given  
that the Division of Oil, Gas  
and Mining (the "Division")  
is commencing an informal  
adjudicative proceeding to  
consider the application of  
Inland Production Com-  
pany for administrative ap-  
proval of the

Canvasback 13A-22-8-  
17 well Sec 22 T 8S, R 17E;  
State 11-32-8-17 well  
Sec 32, T 8S, R 17E;  
Ashley 7-11-9-15 well  
Sec 11, T 9S, R 15E; and  
West Point 5-17-9-16  
well Sec 17, T 9S, R 16E,

Duchesne County, Utah, for  
conversion to Class II in-  
jection wells. These wells  
are located in the Canvas-  
back, Gilsonite, Ashley and  
West Point Units respec-  
tively. The adjudicative pro-  
ceeding will be conducted  
informally according to  
Utah Admin. Rule R609-  
10, Administrative Proce-  
dures.

Selective zone within the  
Green River Formation will  
be used for water injection.  
The maximum requested  
injection pressure and rate  
will be determined based  
on fracture gradient infor-  
mation submitted by Inland  
Production Company.

ABOVE. ENTITLED  
MA "TER."

se "k. hereby given  
that the Division of Oil, Gas  
and Mining (the "Division")  
is commencing an informal  
adjudicative proceeding to  
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proval of the

Canvasback 13A-22-8-  
17 well Sec 22 T 8S, R 17E;

State 11-32-8-17 well  
Sec 32, T 8S, R 17E;

Ashley 7-11-9-15 well  
Sec 11, T 9S, R 15E; and

West Point 5-17-9-16  
well Sec 17, T 9S, R 16E,

Duchesne County, Utah, for  
conversion to Class II in-  
jection wells. These wells  
are located in the Canvas-  
back, Gilsonite, Ashley and  
West Point Units respec-  
tively. The adjudicative pro-  
ceeding will be conducted  
informally according to  
Utah Admin. Rule R649-  
10, Administrative Proce-  
dures.

Selective zones in the  
Green River Formation will  
be used for water injection.  
The maximum requested  
injection pressure and rate  
will be determined based  
on fracture gradient infor-  
mation submitted by Inland  
Production Company.

Any person desiring to  
object to the proposed ap-  
plication or otherwise in-  
tervene in the proceeding  
must file a written protest  
or notice of intervention  
with the Division within fif-  
teen days following publi-  
cation of this notice. The  
Division's Presiding Of-  
ficer for this proceeding is  
John R. Baza, Associate  
Director at PO Box 145801,  
Salt Lake City, Utah 84114-  
5801, phone number (801)  
538-5334. If such a protest  
or notice of intervention is  
received, a hearing will be  
scheduled in accordance  
with the aforementioned  
administrative procedure  
rule. Protestants and/or in-  
terveners should be pre-  
pared to demonstrate at the  
hearing how this matter af-  
fects their interests.

Dated this 19<sup>th</sup> day of  
November, 2002.

STATE OF UTAH  
DIVISION OF OIL,  
GAS & MINING

John R. Baza  
Associate Director  
Published in the Uintah  
Basin Standard November  
26, 2002.

lisher

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**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> Injection well		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU77233
2. NAME OF OPERATOR: Newfield Production Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		7. UNIT or CA AGREEMENT NAME: CANVASBACK UNIT
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 322 FWL 565 FSL		8. WELL NAME and NUMBER: CANVASBACK 13A-22-8-17
5. PHONE NUMBER: 435.646.3721		9. API NUMBER: 4301332238
6. OTR/OTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SW/SW, 22, T8S, R17E		10. FIELD AND POOL, OR WILDCAT: Monument Butte
		COUNTY: Duchesne
		STATE: Utah

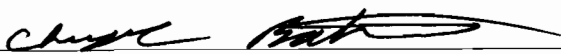
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	TYPE OF ACTION	SubDate
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARITLY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: - Step Rate Test
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  12/05/2005			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

A step rate test was conducted on the subject well on November 30, 2005. Results from the test indicate that the fracture gradient is .724 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed to 1330 psi.

Accepted by  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

NAME (PLEASE PRINT) <u>Cheyenne Batemen</u>	TITLE <u>Well Analyst Foreman</u>
SIGNATURE <u></u>	DATE <u>12/05/2005</u>

(This space for State use only)

DEC 06 2005

## Step Rate Test (SRT) Analysis

Date: 12/05/2005

Operator: Newfield Production Company

Well: Canvasback 13A-22-3-17

Permit #: UT20855-04632

Enter the following data :

Specific Gravity (sg) of injectate = 1.005 g/cc  
Depth to top perforation (D) = 4599 feet  
Top of permitted injection zone depth (D) = Blank=use top perforation to calculate sg feet  
Estimated Formation Parting Pressure (P<sub>fb</sub>) from SRT chart = 1330 psi  
Instantaneous Shut In Pressure (ISIP) from SRT = 1375 psi  
Bottom Hole Parting Pressure (P<sub>bhp</sub>) from downhole pressure recorder = \_\_\_\_\_ psi

### Part One - Calculation of Fracture Gradient (fg)

Calculated Fracture Gradient = 0.724 psi/ft.

where:  $fg = P_{bhp} / D$  (Note: this formula uses the downhole recorded bottom hole parting pressure if available) =

D = depth used = 4599

P<sub>bhp used</sub> = 1331

Calculated Bottom Hole Parting Pressure (P<sub>bhp</sub>) = 3331 psi

to calculate Bottom Hole Parting Pressure (P<sub>bhp</sub>) = Formation Fracture Pressure (ISIP or P<sub>fb</sub>) + (0.433 \* SG \* D)

Use the lesser of ISIP or P<sub>fb</sub> = 1330

### Part Two - Calculation of Maximum Allowable Injection Pressure (MAIP)

Maximum Allowable Injection Pressure (MAIP) = 1330 psig

D = depth used = 4599

MAIP =  $fg \cdot (0.433 \cdot SG) \cdot D = 1328.352$

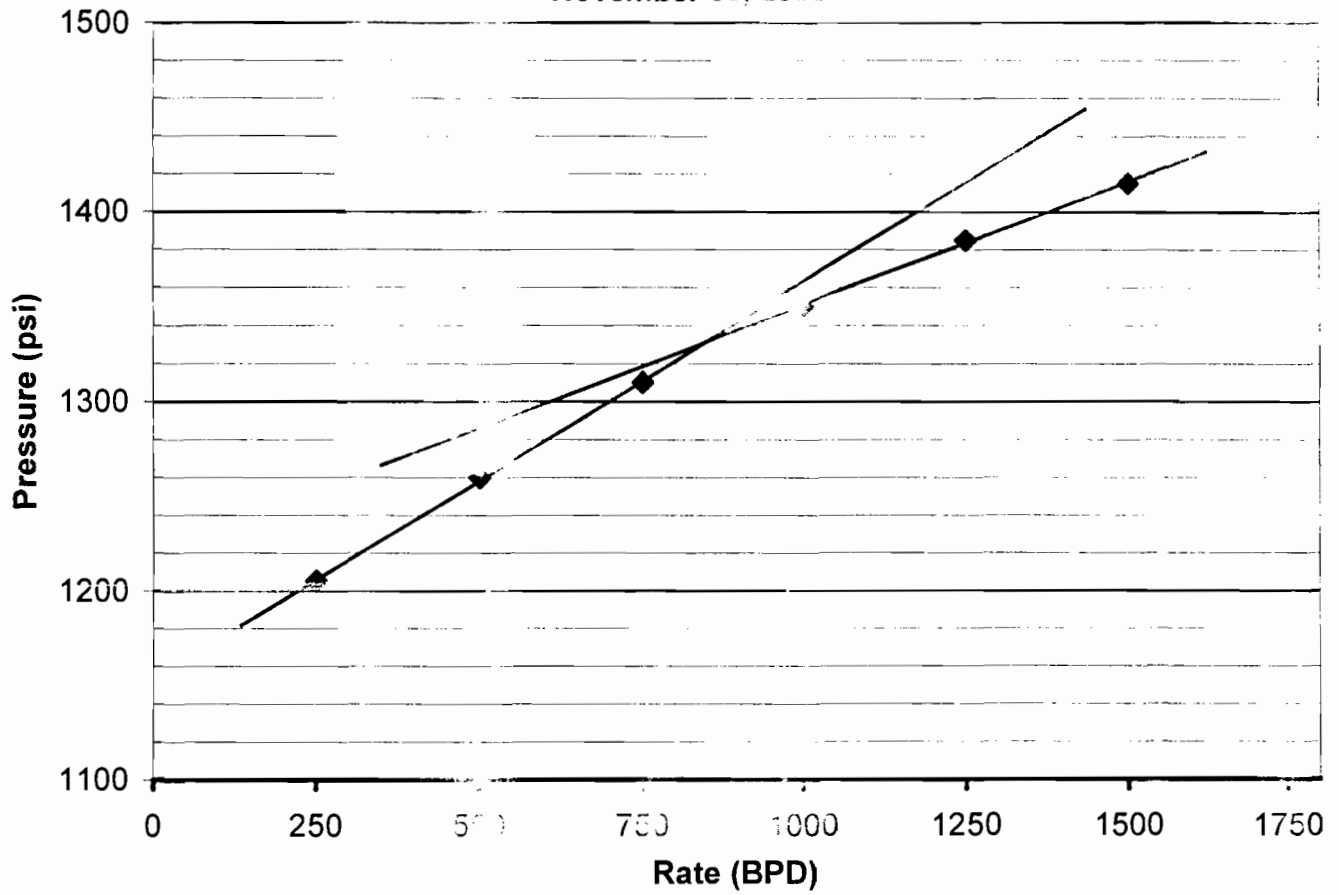
(rounded to nearest 5 psig)

# Canvasback 13A-22-8-17

Canvasback Unit

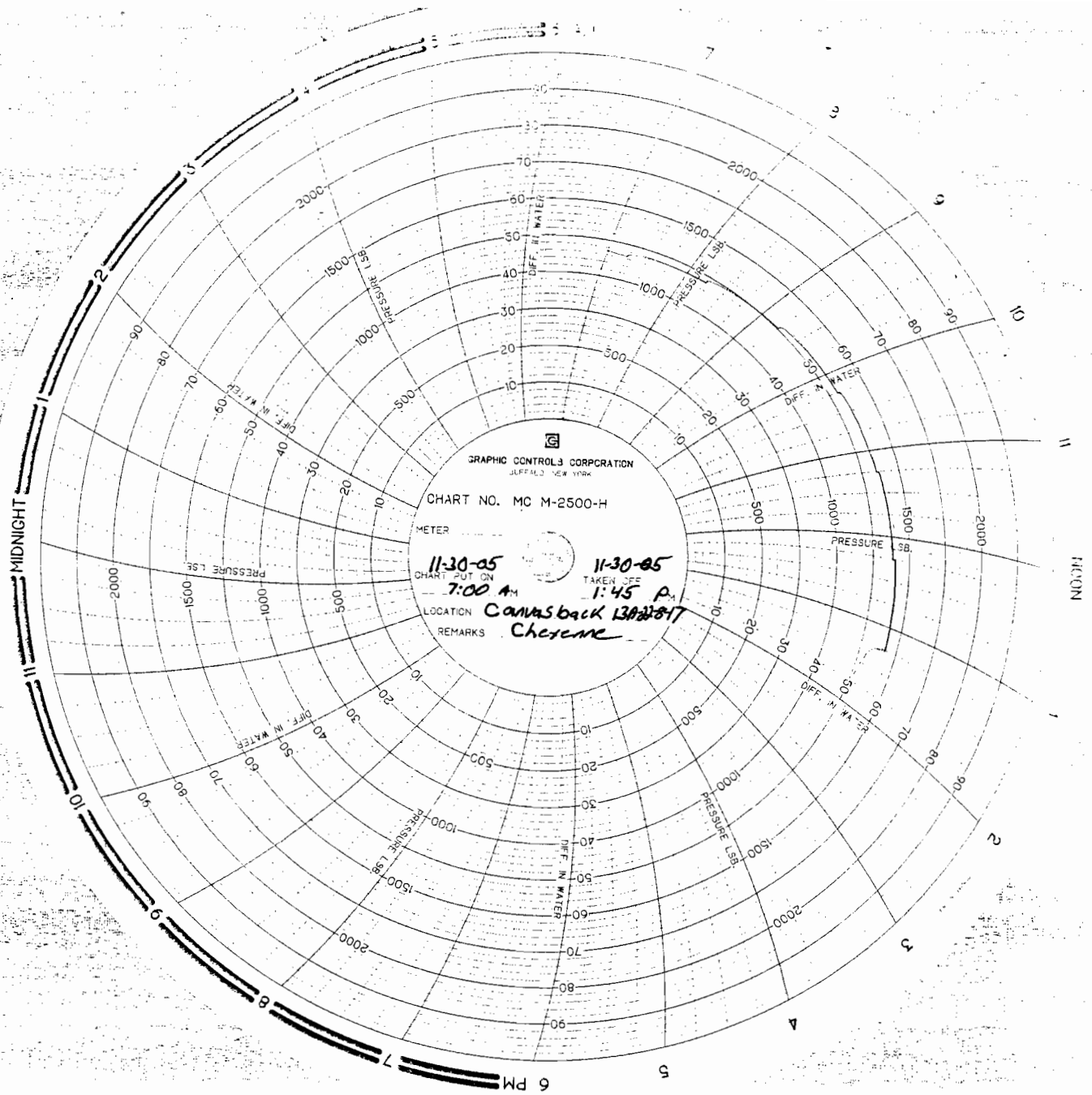
Step Rate Test

November 30, 2005



Start Pressure: 1165 psi  
 Instantaneous Shut In Pressure (ISIP): 1375 psi  
 Top Perforation: 4599 feet  
 Fracture pressure (Pfp): 1330 psi  
 FG: 0.724 psi/ft

Step	Rate(bpd)	Pressure(psi)
1	250	1205
2	500	1260
3	750	1310
4	1000	1350
5	1250	1385
6	1500	1415





STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

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1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-77233
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		7. UNIT or CA AGREEMENT NAME: GMBU
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 565 FSL 322 FWL		8. WELL NAME and NUMBER: CANVASBACK 13A-22-8-17
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWSW, 22, T8S, R17E		9. API NUMBER: 4301332238
		10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE
		COUNTY: DUCHESNE
		STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: - 5 Year MIT
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  03/10/2010			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 2-8-10 Nathan Wiser with the EPA was contacted concerning the 5 year MIT on the above well. (Canvasback 13A-22-8-17) Permission was give at that time to perform the test on 2-8-10. On 3-5-10 the csg was pressured up to 1570 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbq pressure was 1273 psig during the test. There was not an EPA representative available to witness the test. EPA# UT 20855-04682 API# 43-013-32238.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

NAME (PLEASE PRINT) Kathy Chapman TITLE Office Manager  
SIGNATURE *Kathy Chapman* DATE 03/15/2010

(This space for State use only)

RECEIVED  
MAR 18 2010  
DIV OF OIL, GAS & MINING

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 03/05/2010  
Test conducted by: Lynn Manson  
Others present: \_\_\_\_\_

Well Name: <u>Canvasback 13A-22-8-17</u>	Type: <u>ER SWD</u>	Status: <u>AC TA UC</u>
Field: <u>Monument Butte Field</u>		
Location: <u>SW/SW</u> Sec: <u>22</u> T <u>8</u> N <u>15</u> R <u>17</u> E/W County: <u>Duchesne</u> State: <u>UT</u>		
Operator: <u>New field</u>		
Last MIT: <u>1</u> <u>1</u>	Maximum Allowable Pressure: _____ PSIG	

Is this a regularly scheduled test? ☒ Yes ☐ No  
Initial test for permit? ☐ Yes ☒ No  
Test after well rework? ☐ Yes ☒ No  
Well injecting during test? ☐ Yes ☒ No If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: 0 psig

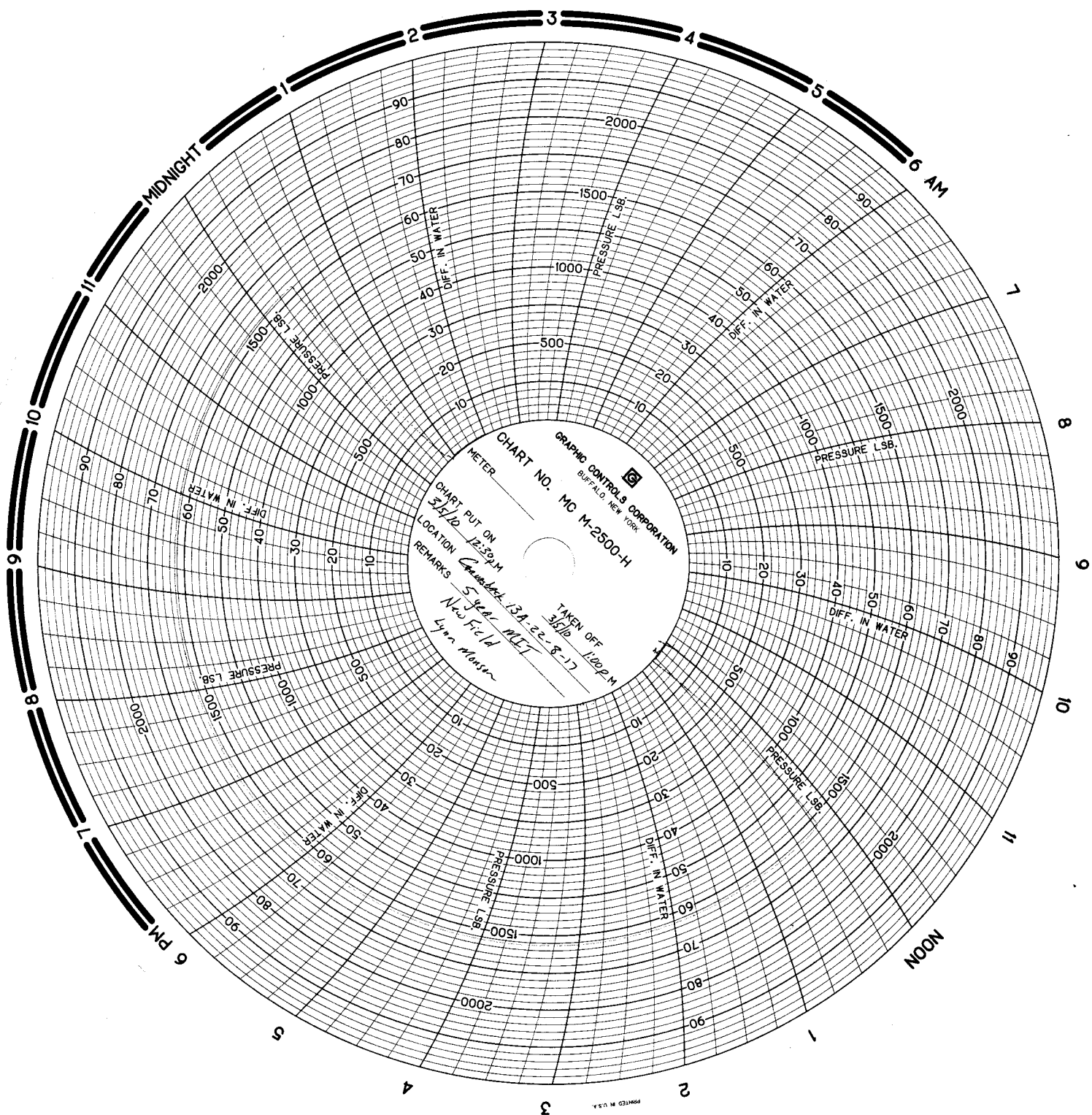
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING</b>	<b>PRESSURE</b>		
Initial Pressure	<u>1273</u> psig	psig	psig
End of test pressure	<u>1273</u> psig	psig	psig
<b>CASING/TUBING</b>	<b>ANNULUS PRESSURE</b>		
0 minutes	<u>1570</u> psig	psig	psig
5 minutes	<u>1570</u> psig	psig	psig
10 minutes	<u>1570</u> psig	psig	psig
15 minutes	<u>1570</u> psig	psig	psig
20 minutes	<u>1570</u> psig	psig	psig
25 minutes	<u>1570</u> psig	psig	psig
30 minutes	<u>1570</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-77233
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> CANVASBACK 13A-22-8-17
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0565 FSL 0822 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 22 Township: 08.0S Range: 17.0E Meridian: S		<b>9. API NUMBER:</b> 43013322380000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> PLUG BACK <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 3/26/2012	OTHER: <input type="text" value="Step Rate Test"/>	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> DRILLING REPORT Report Date:	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. A step rate test was conducted on the subject well on March 26, 2012. Results from the test indicate that the fracture gradient is 0.752 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed from 1330 psi to 1435 psi. EPA: UT20855-04682		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> April 09, 2012		
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/4/2012	

## Step Rate Test (SRT) Analysis

Date: 03/27/2012

Operator:

Newfield Production Company

Well:

CANVASBACK FEDERAL 13A-22-8-17

Permit #:

UT20855-04682

**Enter the following data :**

Specific Gravity (sg) of injectate =	<u>1.015</u>	g/cc
Depth to top perforation (D) =	<u>4599</u>	feet
Top of permitted injection zone depth (blank=use top perforation to calculate fg) =		feet
Estimated Formation Parting Pressure (Pfp) from SRT chart =	<u>1438</u>	psi
Instantaneous Shut In Pressure (ISIP) from SRT =	<u>1480</u>	psi
Bottom Hole Parting Pressure (Pbhp) from downhole pressure recorder =		psi

4599

1438

no downhole

### Part One - Calculation of Fracture Gradient (fg)

**Calculated Fracture Gradient = 0.752 psi/ft.**

where: fg = Pbhp / D (Note: this formula uses the downhole recorded bottom hole parting pressure if available) = 1480

D = depth used = 4599

Pbhp used = 3459

**Calculated Bottom Hole Parting Pressure (Pbhp) = 3459 psi**

3459.238

to calculate Bottom Hole Parting Pressure (Pbhp) = Formation Fracture Pressure (ISIP or Pfp) + (0.433 \* SG \* D)

( Uses lesser of ISIP or Pfp ) Value used = 1438

### Part Two - Calculation of Maximum Allowable Injection Pressure (MAIP)

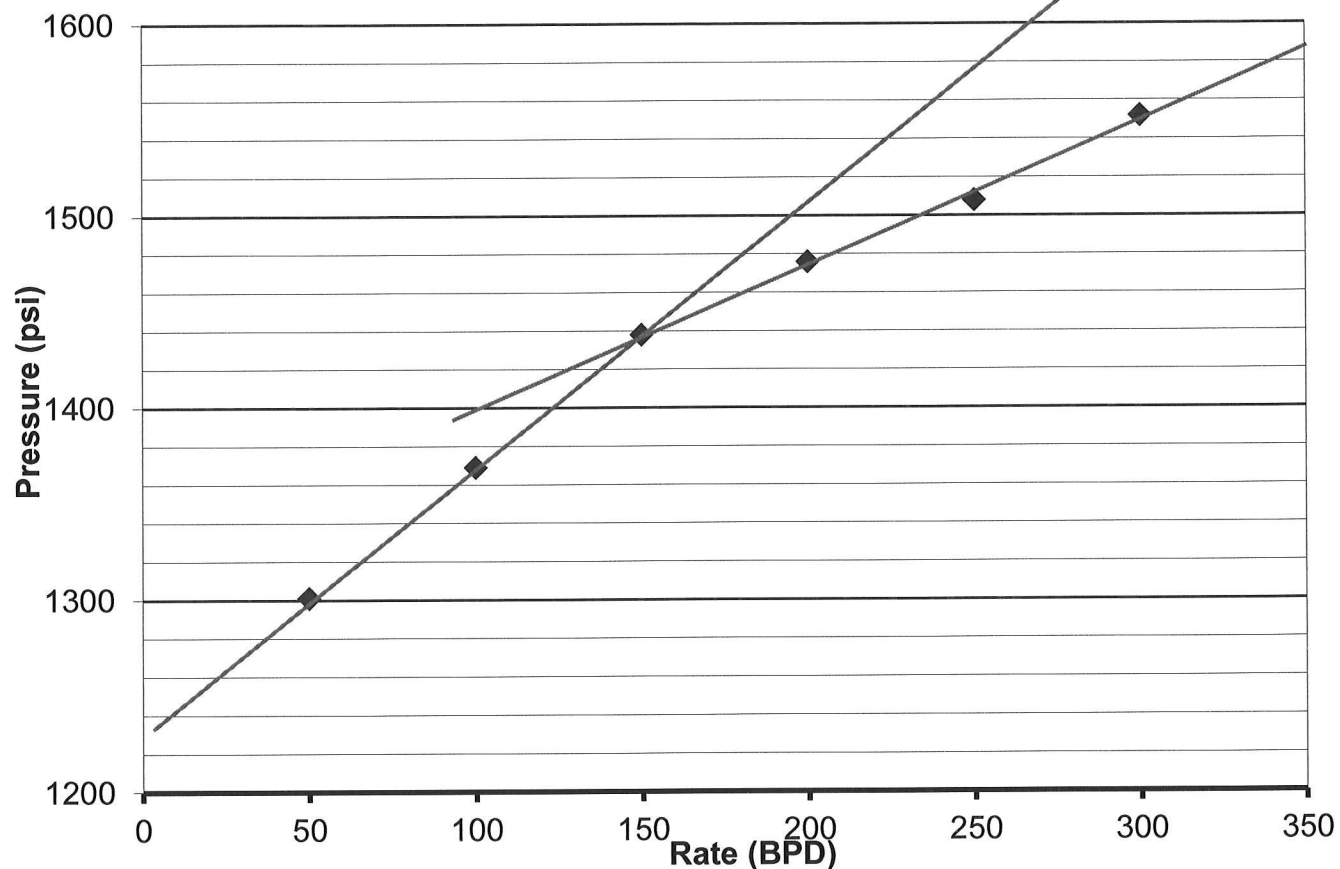
**Maximum Allowable Injection Pressure (MAIP) = 1435 psig**

D = depth used = 4599

MAIP = (fg - (0.433 \* SG)) \* D = 1437.210

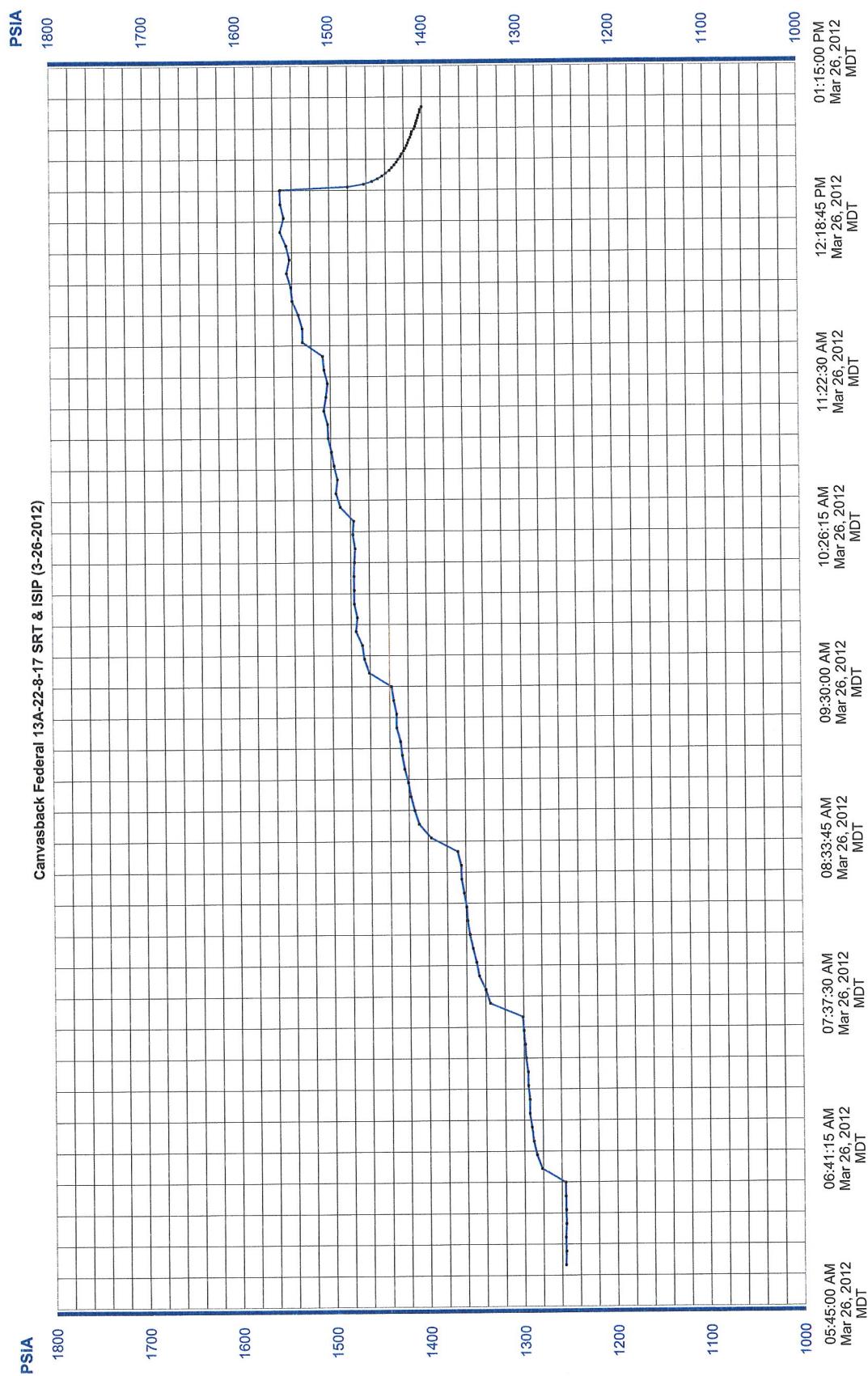
(rounded down to nearest 5 psig)

**Canvasback Federal 13A-22-8-17  
Greater Monument Butte Unit  
Step Rate Test  
March 26, 2012**



**Start Pressure:** 1256 psi  
**Instantaneous Shut In Pressure (ISIP):** 1480 psi  
**Top Perforation:** 4599 feet  
**Fracture pressure (Pfp):** 1438 psi  
**FG:** 0.752 psi/ft

Step	Rate(bpd)	Pressure(psi)
1	50	1301
2	100	1369
3	150	1438
4	200	1476
5	250	1508
6	300	1552



**Data Table Report**

Report Name: PrTemp1000 Data Table  
 Report Date: 03/27/2012 08:22:55  
 File Name: C:\Program Files\PTC® Instruments 2.03.12\  
 Canvasback 13A-22-8-17 SRT (3-26-2012).csv  
 Device: PrTemp1000 - Temperature and Pressure Recorder  
 Hardware Revision: REV2C (64K)  
 Serial Number: M75866  
 Device ID: PrTemp  
 Data Start Date: Mar 26, 2012 05:59:59 AM MDT  
 Data End Date: Mar 26, 2012 12:30:00 PM MDT  
 Reading: 1 to 79 of 79  
 Reading Rate: 2 Seconds  
 Last Calibration Date: Apr 12, 2011  
 Next Calibration Date: Apr 12, 2012  
 Next Calibration Date: Apr 12, 2012

**Canvasback Federal 13A-22-8-17 SRT (3-26-2012)**

Unit Type (All Units)

**Reading**      **DateTime (MDT)**      **Channel 2**  
**PSIA**

1	Mar 26, 2012 05:59:59 AM	1256
2	Mar 26, 2012 06:04:58 AM	1255.6
3	Mar 26, 2012 06:09:58 AM	1256
4	Mar 26, 2012 06:14:58 AM	1255.2
5	Mar 26, 2012 06:19:59 AM	1255.6
6	Mar 26, 2012 06:24:59 AM	1255.8
7	Mar 26, 2012 06:29:59 AM	1255.8
8	Mar 26, 2012 06:34:58 AM	1281
9	Mar 26, 2012 06:39:59 AM	1286.4
10	Mar 26, 2012 06:44:58 AM	1289.6
11	Mar 26, 2012 06:49:58 AM	1291.6
12	Mar 26, 2012 06:54:59 AM	1293.8
13	Mar 26, 2012 06:59:58 AM	1293.6
14	Mar 26, 2012 07:04:59 AM	1295.2
15	Mar 26, 2012 07:09:58 AM	1295.4
16	Mar 26, 2012 07:14:59 AM	1297.4
17	Mar 26, 2012 07:19:59 AM	1298.2
18	Mar 26, 2012 07:24:59 AM	1299.6
19	Mar 26, 2012 07:29:59 AM	1300.6
20	Mar 26, 2012 07:34:59 AM	1335.2
21	Mar 26, 2012 07:39:58 AM	1339.8
22	Mar 26, 2012 07:44:58 AM	1346.6
23	Mar 26, 2012 07:49:59 AM	1349.4
24	Mar 26, 2012 07:54:59 AM	1353
25	Mar 26, 2012 08:00:00 AM	1356.2
26	Mar 26, 2012 08:04:58 AM	1358.6
27	Mar 26, 2012 08:09:59 AM	1359.6
28	Mar 26, 2012 08:14:59 AM	1362
29	Mar 26, 2012 08:19:59 AM	1364.6
30	Mar 26, 2012 08:24:58 AM	1365
31	Mar 26, 2012 08:29:59 AM	1368.6
32	Mar 26, 2012 08:34:59 AM	1396.4
33	Mar 26, 2012 08:39:59 AM	1409.2
34	Mar 26, 2012 08:44:59 AM	1413.8
35	Mar 26, 2012 08:49:58 AM	1417.8
36	Mar 26, 2012 08:55:00 AM	1420.4
37	Mar 26, 2012 08:59:58 AM	1424.2
38	Mar 26, 2012 09:04:59 AM	1426.8



**Canvasback Federal 13A-22-8-17 SRT (3-26-2012)**

Unit Type Reading	(All Units) DateTime (MDT)	Channel 2 PSIA
39	Mar 26, 2012 09:09:59 AM	1428.6
40	Mar 26, 2012 09:14:58 AM	1432.6
41	Mar 26, 2012 09:19:59 AM	1432.6
42	Mar 26, 2012 09:24:58 AM	1435.6
43	Mar 26, 2012 09:29:59 AM	1437.8
44	Mar 26, 2012 09:34:59 AM	1460.8
45	Mar 26, 2012 09:39:59 AM	1466
46	Mar 26, 2012 09:44:59 AM	1468
47	Mar 26, 2012 09:49:59 AM	1474.8
48	Mar 26, 2012 09:54:59 AM	1473.2
49	Mar 26, 2012 09:59:59 AM	1476.4
50	Mar 26, 2012 10:04:58 AM	1476.4
51	Mar 26, 2012 10:09:59 AM	1476.6
52	Mar 26, 2012 10:15:00 AM	1476
53	Mar 26, 2012 10:19:59 AM	1475.2
54	Mar 26, 2012 10:25:00 AM	1477.4
55	Mar 26, 2012 10:29:58 AM	1476.4
56	Mar 26, 2012 10:34:59 AM	1490.4
57	Mar 26, 2012 10:39:59 AM	1494.8
58	Mar 26, 2012 10:44:59 AM	1493.2
59	Mar 26, 2012 10:49:59 AM	1496.6
60	Mar 26, 2012 10:54:59 AM	1499.2
61	Mar 26, 2012 11:00:00 AM	1502.6
62	Mar 26, 2012 11:04:58 AM	1503
63	Mar 26, 2012 11:09:59 AM	1507
64	Mar 26, 2012 11:14:59 AM	1504.6
65	Mar 26, 2012 11:19:59 AM	1502.8
66	Mar 26, 2012 11:24:58 AM	1506.4
67	Mar 26, 2012 11:29:58 AM	1507.8
68	Mar 26, 2012 11:34:59 AM	1529
69	Mar 26, 2012 11:39:59 AM	1529.2
70	Mar 26, 2012 11:44:59 AM	1533.4
71	Mar 26, 2012 11:49:59 AM	1539.8
72	Mar 26, 2012 11:55:00 AM	1541.2
73	Mar 26, 2012 11:59:59 AM	1545.6
74	Mar 26, 2012 12:04:58 PM	1542.4
75	Mar 26, 2012 12:09:58 PM	1546
76	Mar 26, 2012 12:14:59 PM	1552.4
77	Mar 26, 2012 12:19:59 PM	1548.4
78	Mar 26, 2012 12:24:59 PM	1551.8
79	Mar 26, 2012 12:30:00 PM	1552.4

End of Report

**Data Table Report**

Report Name: PrTemp1000 Data Table  
 Report Date: 03/27/2012 08:23:06  
 File Name: C:\Program Files\PTC® Instruments 2.03.12\  
 Canvasback 13A-22-8-17 ISIP (3-26-2012).csv  
 Device: PrTemp1000 - Temperature and Pressure Recorder  
 Hardware Revision: REV2C (64K)  
 Serial Number: M75866  
 Device ID: PrTemp  
 Data Start Date: Mar 26, 2012 12:30:10 PM MDT  
 Data End Date: Mar 26, 2012 01:00:11 PM MDT  
 Reading: 1 to 31 of 31  
 Reading Rate: 2 Seconds  
 Last Calibration Date: Apr 12, 2011  
 Next Calibration Date: Apr 12, 2012  
 Next Calibration Date: Apr 12, 2012

**Canvasback Federal 13A-22-8-17 ISIP (3-26-2012)**

Unit Type (All Units)

**Reading**      **DateTime (MDT)**      **Channel 2**  
**PSIA**

1	Mar 26, 2012 12:30:10 PM	1551.2
2	Mar 26, 2012 12:31:10 PM	1479.8
3	Mar 26, 2012 12:32:10 PM	1462.4
4	Mar 26, 2012 12:33:10 PM	1453.6
5	Mar 26, 2012 12:34:10 PM	1447.4
6	Mar 26, 2012 12:35:11 PM	1442.6
7	Mar 26, 2012 12:36:11 PM	1439
8	Mar 26, 2012 12:37:11 PM	1435.2
9	Mar 26, 2012 12:38:12 PM	1432.6
10	Mar 26, 2012 12:39:11 PM	1430
11	Mar 26, 2012 12:40:11 PM	1427.6
12	Mar 26, 2012 12:41:11 PM	1425.8
13	Mar 26, 2012 12:42:11 PM	1423.2
14	Mar 26, 2012 12:43:11 PM	1422
15	Mar 26, 2012 12:44:11 PM	1419.6
16	Mar 26, 2012 12:45:11 PM	1418
17	Mar 26, 2012 12:46:11 PM	1416.6
18	Mar 26, 2012 12:47:11 PM	1415.2
19	Mar 26, 2012 12:48:11 PM	1414.2
20	Mar 26, 2012 12:49:11 PM	1412.6
21	Mar 26, 2012 12:50:11 PM	1411.4
22	Mar 26, 2012 12:51:11 PM	1410.8
23	Mar 26, 2012 12:52:11 PM	1408.6
24	Mar 26, 2012 12:53:11 PM	1407.4
25	Mar 26, 2012 12:54:12 PM	1406.4
26	Mar 26, 2012 12:55:11 PM	1405.6
27	Mar 26, 2012 12:56:11 PM	1404.6
28	Mar 26, 2012 12:57:11 PM	1403.8
29	Mar 26, 2012 12:58:11 PM	1402.4
30	Mar 26, 2012 12:59:11 PM	1402
31	Mar 26, 2012 01:00:11 PM	1400.2

End of Report

**Canvasback Federal 13A-22-8-17 Rate Sheet (3-26-12)**

<b>Step # 1</b>	Time:	6:35	6:40	6:45	6:50	6:55	7:00
	Rate:	50.8	50.8	50.8	50.7	50.7	50.6
	Time:	7:05	7:10	7:15	7:20	7:25	7:30
	Rate:	50.6	50.6	50.6	50.5	50.5	50.5
<b>Step # 2</b>	Time:	7:35	7:40	7:45	7:50	7:55	8:00
	Rate:	100.3	100.3	100.3	100.3	100.3	100.2
	Time:	8:05	8:10	8:15	8:20	8:25	8:30
	Rate:	100.2	100.2	100.2	100.1	100.1	100.1
<b>Step # 3</b>	Time:	8:35	8:40	8:45	8:50	8:55	9:00
	Rate:	150.6	150.6	150.6	150.6	150.5	150.5
	Time:	9:05	9:10	9:15	9:20	9:25	9:30
	Rate:	150.5	150.4	150.4	150.4	150.3	150.3
<b>Step # 4</b>	Time:	9:35	9:40	9:45	9:50	9:55	10:00
	Rate:	200.6	200.4	200.4	200.4	200.3	200.3
	Time:	10:05	10:10	10:15	10:20	10:25	10:30
	Rate:	200.3	200.3	200.2	200.2	200.2	200.2
<b>Step # 5</b>	Time:	10:35	10:40	10:45	10:50	10:55	11:00
	Rate:	250.4	250.4	250.4	250.3	250.3	250.3
	Time:	11:05	11:10	11:15	11:20	11:25	11:30
	Rate:	250.2	250.2	250.2	250.2	250.1	250.1
<b>Step # 6</b>	Time:	11:35	11:40	11:45	11:50	11:55	12:00
	Rate:	300.5	300.5	300.5	300.5	300.4	300.4
	Time:	12:05	12:10	12:15	12:20	12:25	12:30
	Rate:	300.4	300.3	300.3	300.3	300.3	300.2

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-77233
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> CANVASBACK 13A-22-8-17
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0565 FSL 0822 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 22 Township: 08.0S Range: 17.0E Meridian: S		<b>9. API NUMBER:</b> 43013322380000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 2/4/2015	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input type="checkbox"/> DRILLING REPORT Report Date:	OTHER: <input type="text" value="5 YR MIT"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. 5 YR MIT performed on the above listed well. On 02/04/2015 the casing was pressured up to 1162 psig and charted for 30 minutes with no pressure loss. The well was injecting during the test. The tbg pressure was 1370 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-04682		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> February 13, 2015		
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 2/5/2015	

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 2/14/15  
Test conducted by: Dale Giles  
Others present: \_\_\_\_\_

Well Name: <u>Canvasback 13A-22-9-17</u>	Type: <u>ER SWD</u>	Status: <u>AC TA UC</u>
Field: <u>Monument Butte</u>		
Location: <u>SW/SW</u> Sec: <u>22</u> T <u>8</u> N <u>18</u> R <u>17</u> E/W	County: <u>Duchesne</u>	State: <u>UT</u>
Operator: <u>Newfield production co.</u>		
Last MIT: <u>1</u>	Maximum Allowable Pressure: <u>1479</u>	PSIG

Is this a regularly scheduled test? ☒ Yes ☐ No  
Initial test for permit? ☐ Yes ☒ No  
Test after well rework? ☐ Yes ☒ No  
Well injecting during test? ☒ Yes ☐ No If Yes, rate: 26 bpd

Pre-test casing/tubing annulus pressure: 0 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>1370</u> psig	psig	psig
End of test pressure	<u>1370</u> psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1161</u> psig	psig	psig
5 minutes	<u>1162</u> psig	psig	psig
10 minutes	<u>1162</u> psig	psig	psig
15 minutes	<u>1162</u> psig	psig	psig
20 minutes	<u>1162</u> psig	psig	psig
25 minutes	<u>1162</u> psig	psig	psig
30 minutes	<u>1162</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

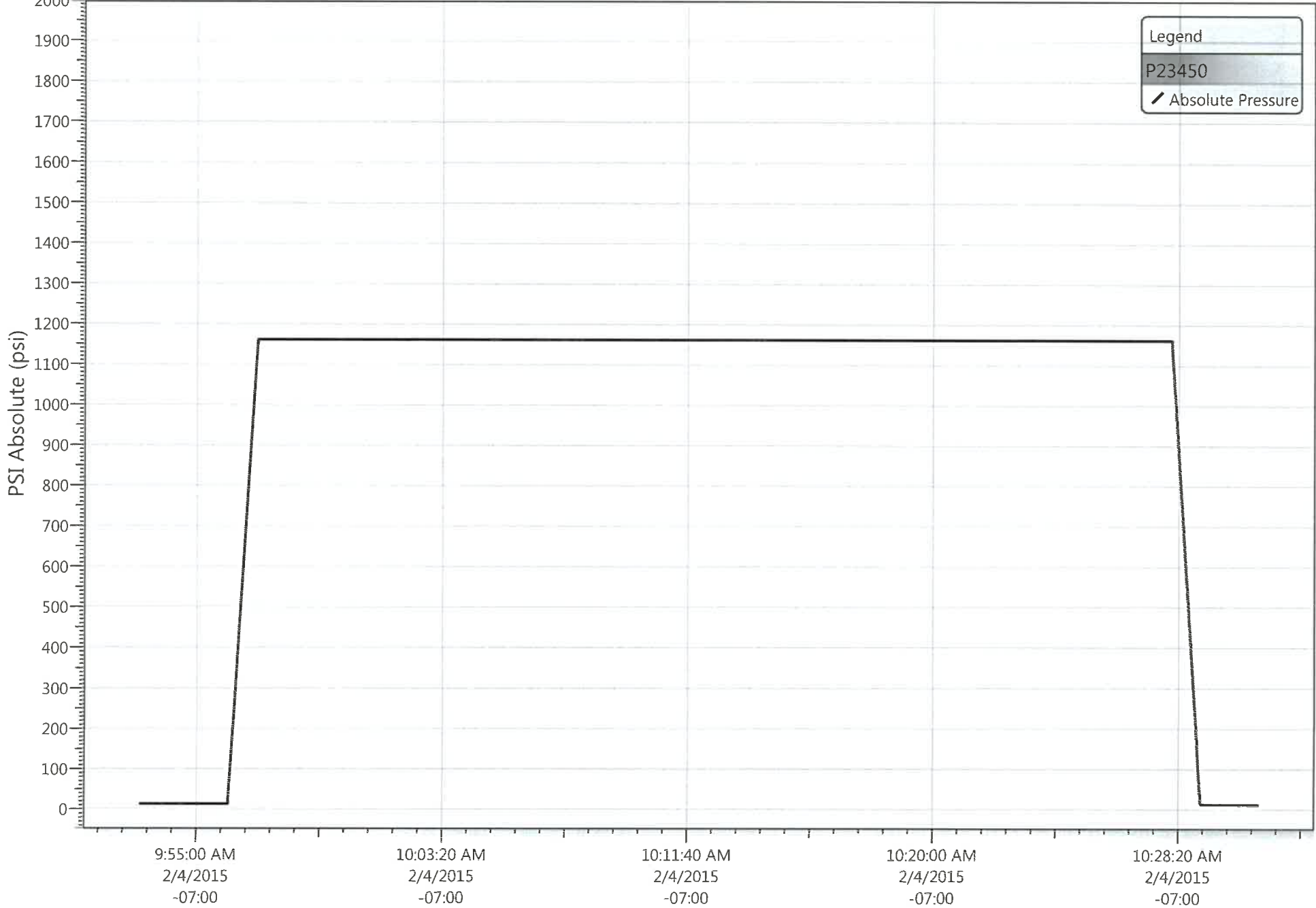
## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_

Canvasback 13A-22-8-17 (5 year MIT)

2/4/2015 9:50:56 AM



NEWFIELD



## Schematic

43-013-32238

Well Name: Canvasback 13A-22-8-17

Surface Legal Location 22-8S-17E		API/UWI 43013322380000		Well RC 500151542	Lease	State/Province Utah	Field Name GMBU CTB7	County DUCHESNE
Spud Date	Rig Release Date	On Production Date 7/3/2002	Original KB Elevation (ft) 5,171	Ground Elevation (ft) 5,161	Total Depth All (TVD) (ftKB)		PBTD (All) (ftKB) Original Hole - 6,300.0	

## Most Recent Job

Job Category Production / Workover	Primary Job Type Other	Secondary Job Type N/A	Job Start Date 9/29/2010	Job End Date 9/29/2010
---------------------------------------	---------------------------	---------------------------	-----------------------------	---------------------------

TD: 6,323.0

Vertical - Original Hole, 3/3/2016 3:05:07 PM

MD (ftKB)	TVD (ftKB)	Incl (°)	DLS DLS (°...	Vertical schematic (actual)
9.8				<p>1; Surface; 8 5/8 in; 8.097 in; 10-300 ftKB; 290.00 ft</p> <p>4-1; Tubing; 2 7/8; 2.441; 10-4,520; 4,510.10</p> <p>4-2; Pump Seating Nipple; 2 7/8; 2.441; 4,520-4,521; 1.10</p> <p>4-3; Packer; 5 1/2; 4.950; 4,521-4,529; 7.58</p> <p>4-4; Cross Over; 2 7/8; 2.441; 4,529-4,533; 4.30</p> <p>Perforated; 4,599-4,693; 6/29/2002</p> <p>Perforated; 5,188-5,280; 6/27/2002</p> <p>Perforated; 5,411-5,414; 6/27/2002</p> <p>Perforated; 5,594-5,774; 6/27/2002</p> <p>Perforated; 5,782-5,953; 6/27/2002</p> <p>Perforated; 6,023-6,109; 6/27/2002</p> <p>2; Production; 5 1/2 in; 4.950 in; 10-6,323 ftKB; 6,313.04 ft</p>
10.2				
299.2				
299.9				
649.9				
4,520.0				
4,521.3				
4,528.9				
4,533.1				
4,599.1				
4,692.9				
5,188.0				
5,279.9				
5,411.1				
5,414.0				
5,594.2				
5,774.0				
5,782.2				
5,953.1				
6,023.0				
6,108.9				
6,299.9				
6,301.8				
6,302.5				
6,322.5				
6,323.2				



# NEWFIELD



## Newfield Wellbore Diagram Data Canvasback 13A-22-8-17

Surface Legal Location 22-8S-17E		API/UWI 43013322380000		Lease	
County DUCHESE	State/Province Utah	Basin		Field Name GMBU CTB7	
Well Start Date 4/16/2002		Spud Date		Final Rig Release Date 7/3/2002	
Original KB Elevation (ft) 5,171	Ground Elevation (ft) 5,161	Total Depth (ftKB) 6,323.0		Total Depth All (TVD) (ftKB) PBTD (All) (ftKB) Original Hole - 6,300.0	

### Casing Strings

Csg Des	Run Date	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	Set Depth (ftKB)
Surface	4/16/2002	8 5/8	8.097	24.00	J-55	300
Production	6/19/2002	5 1/2	4.950	15.50	J-55	6,323

### Cement

#### String: Surface, 300ftKB 4/17/2002

Cementing Company BJ Services Company	Top Depth (ftKB) 10.0	Bottom Depth (ftKB) 300.0	Full Return?	Vol Cement Ret (bbl)
Fluid Description 2% CaCL2 + 1/4#sk Cello-Flake mixed	Fluid Type Lead	Amount (sacks) 150	Class G	Estimated Top (ftKB) 10.0

#### String: Production, 6,323ftKB 6/19/2002

Cementing Company BJ Services Company	Top Depth (ftKB) 650.0	Bottom Depth (ftKB) 6,323.0	Full Return?	Vol Cement Ret (bbl)
Fluid Description .5%SM+ 10% gel+ 3#/ sk BA 90+ 2# sk/kolseal + 3% KCL + 1/4# sk staticfree	Fluid Type Lead	Amount (sacks) 300	Class Premlite II	Estimated Top (ftKB) 650.0
Fluid Description 3% KCL, 1/4# sk C.F. 2% gel. 3% SMS. 1R3. .05# sk staticfree mixed	Fluid Type Tail	Amount (sacks) 550	Class 50:50 POZ	Estimated Top (ftKB) 2,500.0

### Tubing Strings

Tubing Description					Run Date		Set Depth (ftKB)	
Tubing					4/1/2005		4,533.1	
Item Des	Jts	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing	140	2 7/8	2.441	6.50	J-55	4,510.10	10.0	4,520.1
Pump Seating Nipple	1	2 7/8	2.441			1.10	4,520.1	4,521.2
Packer	1	5 1/2	4.950			7.58	4,521.2	4,528.8
Cross Over	1	2 7/8	2.441			4.30	4,528.8	4,533.1

### Rod Strings

Rod Description				Run Date		Set Depth (ftKB)	
Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)

### Perforation Intervals

Stage#	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (*)	Nom Hole Dia (in)	Date
6	GB4, 6, Original Hole	4,599	4,693	4			6/29/2002
5	D1, D3, Original Hole	5,188	5,280	4			6/27/2002
4	B .5, Original Hole	5,411	5,414	4			6/27/2002
3	LODC, Original Hole	5,594	5,774	4			6/27/2002
2	BS, Original Hole	5,782	5,953	4			6/27/2002
1	CP1, 2, Original Hole	6,023	6,109	4			6/27/2002

### Stimulations & Treatments

Stage#	ISIP (psi)	Frac Gradient (psi/ft)	Max Rate (bbl/min)	Max PSI (psi)	Total Clean Vol (bbl)	Total Slurry Vol (bbl)	Vol Recov (bbl)
1	2,150	0.79	25.5	2,580			
1	2,150	0.79	25.5	2,580			
1	2,150	0.79	25.5	2,580			
1	2,150	0.79	25.5	2,580			
1	2,150	0.79	25.5	2,580			
6	1,940	0.84	26.0	2,300			
6	1,940	0.84	26.0	2,300			
6	1,940	0.84	26.0	2,300			
6	1,940	0.84	26.0	2,300			
6	1,940	0.84	26.0	2,300			
6	1,940	0.84	26.0	2,300			

### Proppant

Stage#	Total Prop Vol Pumped (lb)	Total Add Amount
1		
1		
1		





## Proppant

Stage#	Total Prop Vol Pumped (lb)	Total Add Amount
1		
1		
1		
6		Proppant White Sand 583022 lb
6		Proppant White Sand 583022 lb
6		Proppant White Sand 583022 lb
6		Proppant White Sand 583022 lb
6		Proppant White Sand 583022 lb
6		Proppant White Sand 583022 lb